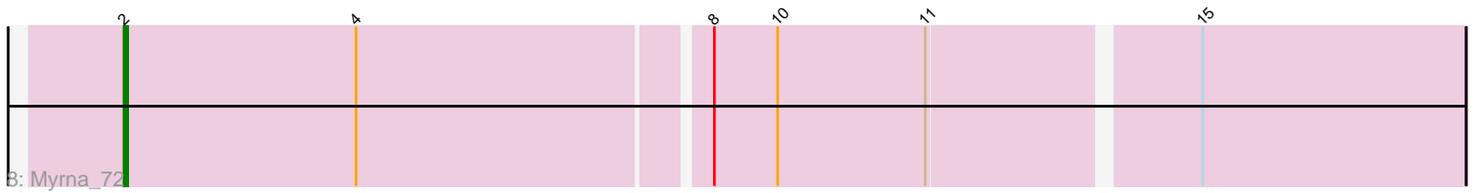
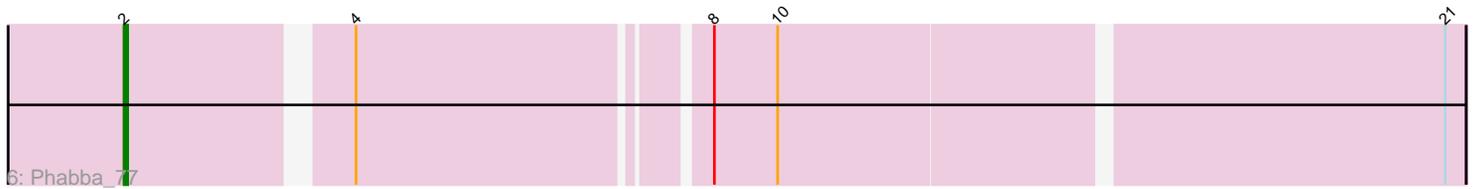
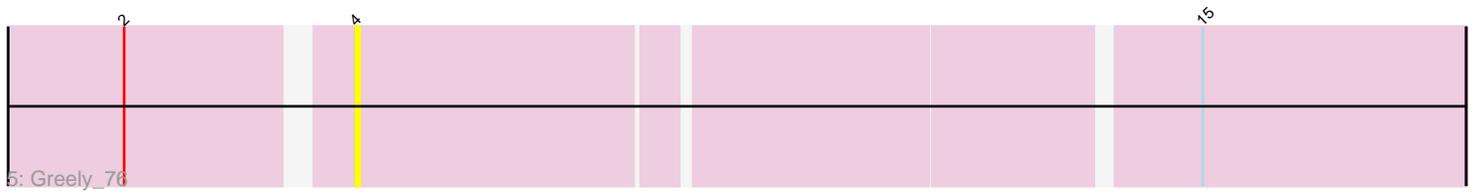
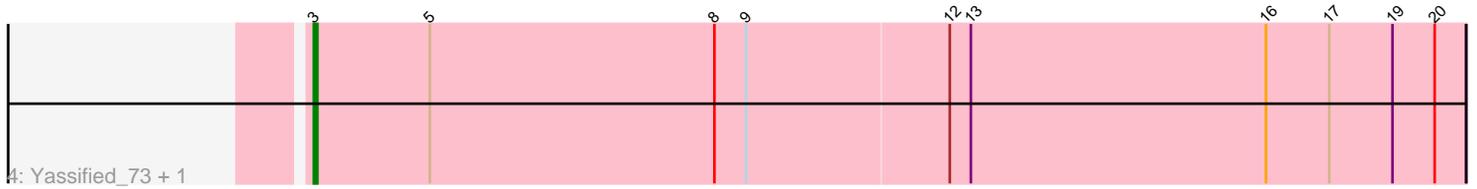
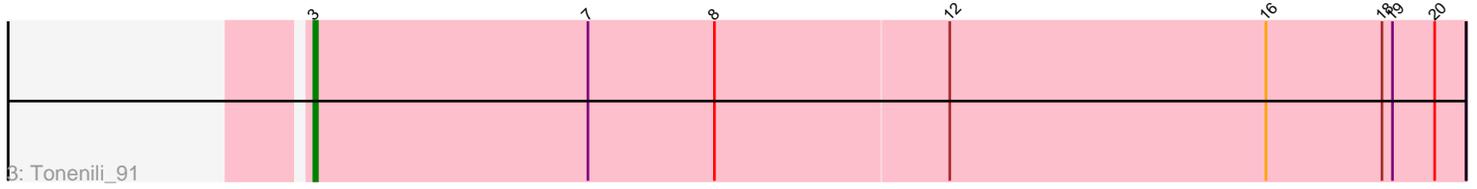
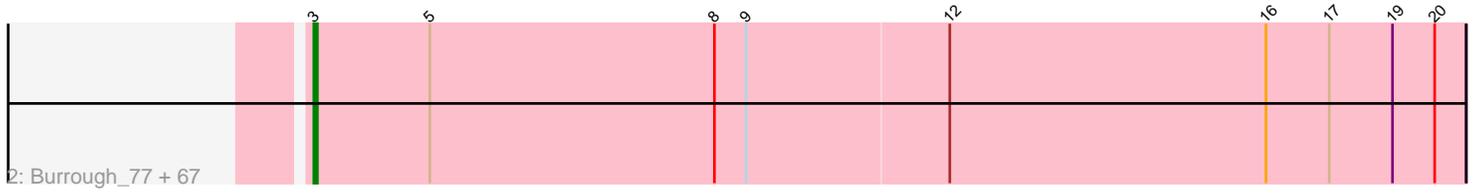
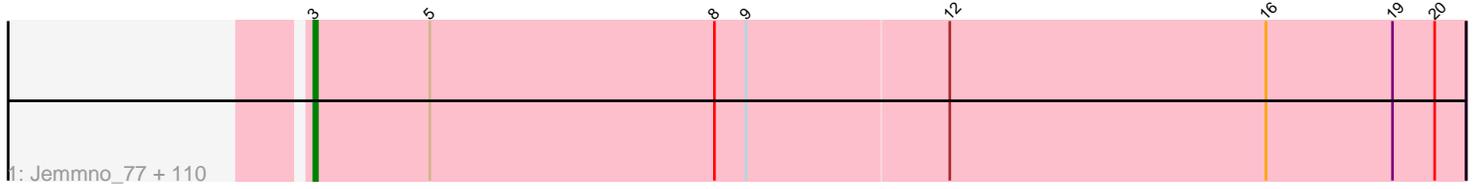


Pham 475



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 475 Report

This analysis was run 03/30/24 on database version 556.

Pham number 475 has 186 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Jemmno_77, ParkTD_78, LinStu_76, NuevoMundo_83, Latch_77, Delylah_80, Jessibeth14_76, Capablanca_79, Kamryn_77, Concombre_84, Ronan_70, Naija_76, Yucca_76, Bigswole_82, YoungMoneyMata_77, Erdmann_77, Bipolarisk_76, Colt_67, FrayBell_83, Nidhogg_77, Blubba_65, Ewok_78, Breeniome_77, Mangeria_77, Willis_78, BadAgartude_74, DrPhinkDaddy_76, Audrick_79, Naval22_82, Sebata_77, Cane17_65, EmToTheThree_80, StephanieG_77, JPickles_75, Wally_75, InterFolia_86, RoMag_72, Nappy_78, Shelob_79, Gizmo_81, Phlegm_79, ZygoTaiga_76, Ngannou_73, Ghost_76, McGee_78, Megamind_76, Teardrop_77, Babyland_76, BananaFence_76, IkeLoa_71, Quasimodo_77, Ava3_78, HyRo_70, McWolfish_75, LRRHood_71, InigoMontoya_78, Issimir_75, Caravan_73, MikeLiesIn_77, Maby2021_77, SilverDipper_78, Zeenon_78, Napoleon13_73, Momo_76, Dandelion_83, NoodleTree_80, YemiJoy2021_78, PurduePete_77, Lee7_75, Gamgam_77, Asterius_74, Dietrick_70, MoMoMixon_77, Tortoise16_75, Pleione_79, Amataga_77, Bonray_77, Specks_83, Shrimp_77, Lukilu_67, Izajani_77, JayJay_79, Rizal_74, Loanshark_77, Zalkecks_78, NedWong_78, Patter_77, LordLeafolot_81, Tyke_79, ValleyTerrace_77, LolaVinca_79, Phox_73, Shaqnato_69, JulietS_69, Pivoine_76, EggyFarm_84, SrishMeg2525_76, Grasshills_84, TinyTim_77, FoxtrotP1_77, BigCity_84, I3_81, Spud_76, Daffodil_81, Atlantean_76, Delilah_77, Khaleesi_76, Pier_81, Norm_78, StubbySaigey_78, Mikro_75
- Track 2 : Burrough_77, ErnieJ_73, Spec_72, EasyJones_79, Derek_77, ScottMcG_73, Basquiat_73, DirtMonster_70, Chomp_74, Matsumoto_75, CharlieB_73, FudgeTart_77, Gabriel_79, Fludd_77, Flabslab_72, Guwapp_76, Melpomini_71, Blackbrain_72, Cactojaque_72, Pinkcreek_67, Koguma_73, Roots515_76, BackyardAgain_74, Jedediah_80, QBert_71, Drazdys_77, Cali_72, Essence_74, Jaygup_77, Kboogie_80, Alice_69, Chargie21_73, Astraea_75, Pio_80, ChickenPhender_73, Morizzled23_77, Grungle_65, Rahel_76, BeanWater_69, LifeSavor_76, Catera_75, ArcherS7_77, ChaylaJr_72, Bxz1_77, ShiaLabeouf_77, Bangla1971_78, DTDevon_78, ET08_66, Salacia_81, Adlitam_77, JustHall_73, Ading_77, Turret_72, Sauce_77, Sprinklers_72, Shnickers_77, Shifa_66, Stubby_70, EmmaElysia_76, Darko_77, Trinitium_73, Iota_71, Bread_77, SmallFry_77, Littleton_77, Phusco_77, Janiyra_79, CindyLou_78
- Track 3 : Tonenili_91
- Track 4 : Yassified_73, Rabinovish_74
- Track 5 : Greely_76
- Track 6 : Phabba_77
- Track 7 : ScoobyDoobyDoo_67

- Track 8 : Myrna_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 167 of the 170 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_77, Adlitam_77, Alice_69, Amataga_77, ArcherS7_77, Asterius_74, Astraea_75, Atlantean_76, Audrick_79, Ava3_78, Babyland_76, BackyardAgain_74, BadAgartude_74, BananaFence_76, Bangla1971_78, Basquiat_73, BeanWater_69, BigCity_84, Bigswole_82, Bipolarisk_76, Blackbrain_72, Blubba_65, Bonray_77, Bread_77, Breeniome_77, Burrough_77, Bxz1_77, Cactojaque_72, Cali_72, Cane17_65, Capablanca_79, Caravan_73, Catera_75, Chargie21_73, CharlieB_73, ChaylaJr_72, ChickenPhender_73, Chomp_74, CindyLou_78, Colt_67, Concombre_84, DTDevon_78, Daffodil_81, Dandelion_83, Darko_77, Delilah_77, Delylah_80, Derek_77, Dietrick_70, DirtMonster_70, DrPhinkDaddy_76, Drazdys_77, ET08_66, EasyJones_79, EggyFarm_84, EmToTheThree_80, EmmaElysia_76, Erdmann_77, ErnieJ_73, Essence_74, Ewok_78, Flabslab_72, Fludd_77, FoxtrotP1_77, FrayBell_83, FudgeTart_77, Gabriel_79, Gangam_77, Ghost_76, Gizmo_81, Grasshills_84, Grungle_65, Guwapp_76, HyRo_70, I3_81, IkeLoa_71, InigoMontoya_78, InterFolia_86, Iota_71, Issimir_75, Izajani_77, JPickles_75, Janiyra_79, JayJay_79, Jaygup_77, Jedediah_80, Jemmno_77, Jessibeth14_76, JulietS_69, JustHall_73, Kamryn_77, Kboogie_80, Khaleesi_76, Koguma_73, LRRHood_71, Latch_77, Lee7_75, LifeSavor_76, LinStu_76, Littleton_77, Loanshark_77, LolaVinca_79, LordLeafolot_81, Lukilu_67, Maby2021_77, Mangeria_77, Matsumoto_75, McGee_78, McWolfish_75, Megamind_76, Melpomini_71, MikeLiesIn_77, Mikro_75, MoMoMixon_77, Momo_76, Morizzled23_77, Naija_76, Napoleon13_73, Nappy_78, Naval22_82, NedWong_78, Ngannou_73, Nidhogg_77, NoodleTree_80, Norm_78, NuevoMundo_83, ParkTD_78, Patter_77, Phlegm_79, Phox_73, Phusco_77, Pier_81, Pinkcreek_67, Pio_80, Pivoine_76, Pleione_79, PurduePete_77, QBert_71, Quasimodo_77, Rabinovish_74, Rahel_76, Rizal_74, RoMag_72, Ronan_70, Roots515_76, Salacia_81, Sauce_77, ScottMcG_73, Sebata_77, Shaqnato_69, Shelob_79, ShiaLabeouf_77, Shifa_66, Shnickers_77, Shrimp_77, SilverDipper_78, SmallFry_77, Spec_72, Specks_83, Sprinklers_72, Spud_76, SrishMeg2525_76, StephanieG_77, StubbySaigey_78, Stubby_70, Teardrop_77, TinyTim_77, Tonenili_91, Tortoise16_75, Trinitium_73, Turret_72, Tyke_79, ValleyTerrace_77, Wally_75, Willis_78, Yassified_73, YemiJoy2021_78, YoungMoneyMata_77, Yucca_76, Zalkecks_78, Zeenon_78, ZygoTaiga_76,

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

-

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

- Greely_76, Myrna_72, Phabba_77, ScoobyDoobyDoo_67,

Summary by start number:

Start 1:

- Found in 1 of 186 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 170
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ScoobyDoobyDoo_67 (C2),

Start 2:

- Found in 3 of 186 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 170
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Myrna_72 (C2), Phabba_77 (C2),

Start 3:

- Found in 182 of 186 (97.8%) of genes in pham
- Manual Annotations of this start: 167 of 170
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ading_77 (C1), Adlitam_77 (C1), Alice_69 (C1), Amataga_77 (C1), ArcherS7_77 (C1), Asterius_74 (C1), Astraea_75 (C1), Atlantean_76 (C1), Audrick_79 (C1), Ava3_78 (C1), Babyland_76 (C1), BackyardAgain_74 (C1), BadAgartude_74 (C1), BananaFence_76 (C1), Bangla1971_78 (C1), Basquiat_73 (C1), BeanWater_69 (C1), BigCity_84 (C1), Bigswole_82 (C1), Bipolarisk_76 (C1), Blackbrain_72 (C1), Blubba_65 (C1), Bonray_77 (C1), Bread_77 (C1), Breeniome_77 (C1), Burrough_77 (C1), Bxz1_77 (C1), Cactojaque_72 (C1), Cali_72 (C1), Cane17_65 (C1), Capablanca_79 (C1), Caravan_73 (C1), Catera_75 (C1), Chargie21_73 (C1), CharlieB_73 (C1), ChaylaJr_72 (C1), ChickenPhender_73 (C1), Chomp_74 (C1), CindyLou_78 (C1), Colt_67 (C1), Concombre_84 (C1), DTDevon_78 (C1), Daffodil_81 (C1), Dandelion_83 (C1), Darko_77 (C1), Delilah_77 (C1), Delylah_80 (C1), Derek_77 (C1), Dietrick_70 (C1), DirtMonster_70 (C1), DrPhinkDaddy_76 (C1), Drazdys_77 (C1), ET08_66 (C1), EasyJones_79 (C1), EggyFarm_84 (C1), EmToTheThree_80 (C1), EmmaElysia_76 (C1), Erdmann_77 (C1), ErnieJ_73 (C1), Essence_74 (C1), Ewok_78 (C1), Flabslab_72 (C1), Fludd_77 (C1), FoxtrotP1_77 (C1), FrayBell_83 (C1), FudgeTart_77 (C1), Gabriel_79 (C1), Gangam_77 (C1), Ghost_76 (C1), Gizmo_81 (C1), Grasshills_84 (C1), Grungle_65 (C1), Guwapp_76 (C1), HyRo_70 (C1), I3_81 (C1), IkeLoa_71 (C1), InigoMontoya_78 (C1), InterFolia_86 (C1), Iota_71 (C1), Issimir_75 (C1), Izajani_77 (C1), JPickles_75 (C1), Janiyra_79 (C1), JayJay_79 (C1), Jaygup_77 (C1), Jedediah_80 (C1), Jemmno_77 (C1), Jessibeth14_76 (C1), JulietS_69 (C1), JustHall_73 (C1), Kamryn_77 (C1), Kboogie_80 (C1), Khaleesi_76 (C1), Koguma_73 (C1), LRRHood_71 (C1), Latch_77 (C1), Lee7_75 (C1), LifeSavor_76 (C1), LinStu_76 (C1), Littleton_77 (C1), Loanshark_77 (C1), LolaVinca_79 (C1), LordLeafolot_81 (C1), Lukilu_67 (C1), Maby2021_77 (C1), Mangeria_77 (C1), Matsumoto_75 (C1), McGee_78 (C1), McWolfish_75 (C1), Megamind_76 (C1), Melpomini_71 (C1), MikeLiesIn_77 (C1), Mikro_75 (C1), MoMoMixon_77 (C1), Momo_76 (C1), Morizzled23_77 (C1), Naija_76 (C1), Napoleon13_73 (C1), Nappy_78 (C1), Naval22_82 (C1), NedWong_78 (C1), Ngannou_73 (C1), Nidhogg_77 (C1), NoodleTree_80 (C1), Norm_78 (C1), NuevoMundo_83 (C1), ParkTD_78 (C1), Patter_77 (C1), Phlegm_79 (C1), Phox_73 (C1), Phusco_77 (C1), Pier_81 (C1), Pinkcreek_67 (C1), Pio_80 (C1), Pivoine_76 (C1), Pleione_79 (C1), PurduePete_77 (C1), QBert_71 (C1), Quasimodo_77 (C1), Rabinovish_74 (C1), Rahel_76 (C1), Rizal_74 (C1), RoMag_72 (C1), Ronan_70 (C1), Roots515_76 (C1), Salacia_81 (C1), Sauce_77 (C1), ScottMcG_73 (C1), Sebata_77 (C1), Shaqnato_69 (C1), Shelob_79 (C1), ShiaLabeouf_77 (C1), Shifa_66 (C1), Shnickers_77 (C1), Shrimp_77 (C1), SilverDipper_78 (C1), SmallFry_77 (C1), Spec_72 (C1), Specks_83 (C1), Sprinklers_72 (C1), Spud_76 (C1),

SrishMeg2525_76 (C1), StephanieG_77 (C1), StubbySaigey_78 (C1), Stubby_70 (C1), Teardrop_77 (C1), TinyTim_77 (C1), Tonenili_91 (C1), Tortoise16_75 (C1), Trinitium_73 (C1), Turret_72 (C1), Tyke_79 (C1), ValleyTerrace_77 (C1), Wally_75 (C1), Willis_78 (C1), Yassified_73 (C1), YemiJoy2021_78 (C1), YoungMoneyMata_77 (C1), Yucca_76 (C1), Zalkecks_78 (C1), Zeenon_78 (C1), ZygoTaiga_76 (C1),

Start 4:

- Found in 4 of 186 (2.2%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Greely_76 (C2),

Summary by clusters:

There are 2 clusters represented in this pham: C2, C1,

Info for manual annotations of cluster C1:

- Start number 3 was manually annotated 167 times for cluster C1.

Info for manual annotations of cluster C2:

- Start number 1 was manually annotated 1 time for cluster C2.
- Start number 2 was manually annotated 2 times for cluster C2.

Gene Information:

Gene: Ading_77 Start: 26358, Stop: 26684, Start Num: 3

Candidate Starts for Ading_77:

(Start: 3 @26358 has 167 MA's), (5, 26391), (8, 26472), (9, 26481), (12, 26538), (16, 26628), (17, 26646), (19, 26664), (20, 26676),

Gene: Adlitam_77 Start: 26375, Stop: 26701, Start Num: 3

Candidate Starts for Adlitam_77:

(Start: 3 @26375 has 167 MA's), (5, 26408), (8, 26489), (9, 26498), (12, 26555), (16, 26645), (17, 26663), (19, 26681), (20, 26693),

Gene: Alice_69 Start: 25249, Stop: 25575, Start Num: 3

Candidate Starts for Alice_69:

(Start: 3 @25249 has 167 MA's), (5, 25282), (8, 25363), (9, 25372), (12, 25429), (16, 25519), (17, 25537), (19, 25555), (20, 25567),

Gene: Amataga_77 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Amataga_77:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: ArcherS7_77 Start: 26742, Stop: 27068, Start Num: 3

Candidate Starts for ArcherS7_77:

(Start: 3 @26742 has 167 MA's), (5, 26775), (8, 26856), (9, 26865), (12, 26922), (16, 27012), (17, 27030), (19, 27048), (20, 27060),

Gene: Asterius_74 Start: 26777, Stop: 27103, Start Num: 3

Candidate Starts for Asterius_74:

(Start: 3 @26777 has 167 MA's), (5, 26810), (8, 26891), (9, 26900), (12, 26957), (16, 27047), (19, 27083), (20, 27095),

Gene: Astraea_75 Start: 26656, Stop: 26982, Start Num: 3

Candidate Starts for Astraea_75:

(Start: 3 @26656 has 167 MA's), (5, 26689), (8, 26770), (9, 26779), (12, 26836), (16, 26926), (17, 26944), (19, 26962), (20, 26974),

Gene: Atlantean_76 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Atlantean_76:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Audrick_79 Start: 26358, Stop: 26684, Start Num: 3

Candidate Starts for Audrick_79:

(Start: 3 @26358 has 167 MA's), (5, 26391), (8, 26472), (9, 26481), (12, 26538), (16, 26628), (19, 26664), (20, 26676),

Gene: Ava3_78 Start: 27528, Stop: 27854, Start Num: 3

Candidate Starts for Ava3_78:

(Start: 3 @27528 has 167 MA's), (5, 27561), (8, 27642), (9, 27651), (12, 27708), (16, 27798), (19, 27834), (20, 27846),

Gene: Babyland_76 Start: 25817, Stop: 26143, Start Num: 3

Candidate Starts for Babyland_76:

(Start: 3 @25817 has 167 MA's), (5, 25850), (8, 25931), (9, 25940), (12, 25997), (16, 26087), (19, 26123), (20, 26135),

Gene: BackyardAgain_74 Start: 26310, Stop: 26636, Start Num: 3

Candidate Starts for BackyardAgain_74:

(Start: 3 @26310 has 167 MA's), (5, 26343), (8, 26424), (9, 26433), (12, 26490), (16, 26580), (17, 26598), (19, 26616), (20, 26628),

Gene: BadAgartude_74 Start: 27416, Stop: 27742, Start Num: 3

Candidate Starts for BadAgartude_74:

(Start: 3 @27416 has 167 MA's), (5, 27449), (8, 27530), (9, 27539), (12, 27596), (16, 27686), (19, 27722), (20, 27734),

Gene: BananaFence_76 Start: 26898, Stop: 27224, Start Num: 3

Candidate Starts for BananaFence_76:

(Start: 3 @26898 has 167 MA's), (5, 26931), (8, 27012), (9, 27021), (12, 27078), (16, 27168), (19, 27204), (20, 27216),

Gene: Bangla1971_78 Start: 26872, Stop: 27198, Start Num: 3

Candidate Starts for Bangla1971_78:

(Start: 3 @26872 has 167 MA's), (5, 26905), (8, 26986), (9, 26995), (12, 27052), (16, 27142), (17, 27160), (19, 27178), (20, 27190),

Gene: Basquiat_73 Start: 25861, Stop: 26187, Start Num: 3

Candidate Starts for Basquiat_73:

(Start: 3 @25861 has 167 MA's), (5, 25894), (8, 25975), (9, 25984), (12, 26041), (16, 26131), (17, 26149), (19, 26167), (20, 26179),

Gene: BeanWater_69 Start: 26012, Stop: 26338, Start Num: 3

Candidate Starts for BeanWater_69:

(Start: 3 @26012 has 167 MA's), (5, 26045), (8, 26126), (9, 26135), (12, 26192), (16, 26282), (17, 26300), (19, 26318), (20, 26330),

Gene: BigCity_84 Start: 29555, Stop: 29881, Start Num: 3

Candidate Starts for BigCity_84:

(Start: 3 @29555 has 167 MA's), (5, 29588), (8, 29669), (9, 29678), (12, 29735), (16, 29825), (19, 29861), (20, 29873),

Gene: Bigswole_82 Start: 29143, Stop: 29469, Start Num: 3

Candidate Starts for Bigswole_82:

(Start: 3 @29143 has 167 MA's), (5, 29176), (8, 29257), (9, 29266), (12, 29323), (16, 29413), (19, 29449), (20, 29461),

Gene: Bipolarisk_76 Start: 27180, Stop: 27506, Start Num: 3

Candidate Starts for Bipolarisk_76:

(Start: 3 @27180 has 167 MA's), (5, 27213), (8, 27294), (9, 27303), (12, 27360), (16, 27450), (19, 27486), (20, 27498),

Gene: Blackbrain_72 Start: 25678, Stop: 26004, Start Num: 3

Candidate Starts for Blackbrain_72:

(Start: 3 @25678 has 167 MA's), (5, 25711), (8, 25792), (9, 25801), (12, 25858), (16, 25948), (17, 25966), (19, 25984), (20, 25996),

Gene: Blubba_65 Start: 24052, Stop: 24378, Start Num: 3

Candidate Starts for Blubba_65:

(Start: 3 @24052 has 167 MA's), (5, 24085), (8, 24166), (9, 24175), (12, 24232), (16, 24322), (19, 24358), (20, 24370),

Gene: Bonray_77 Start: 27460, Stop: 27786, Start Num: 3

Candidate Starts for Bonray_77:

(Start: 3 @27460 has 167 MA's), (5, 27493), (8, 27574), (9, 27583), (12, 27640), (16, 27730), (19, 27766), (20, 27778),

Gene: Bread_77 Start: 27114, Stop: 27440, Start Num: 3

Candidate Starts for Bread_77:

(Start: 3 @27114 has 167 MA's), (5, 27147), (8, 27228), (9, 27237), (12, 27294), (16, 27384), (17, 27402), (19, 27420), (20, 27432),

Gene: Breeniome_77 Start: 26203, Stop: 26529, Start Num: 3

Candidate Starts for Breeniome_77:

(Start: 3 @26203 has 167 MA's), (5, 26236), (8, 26317), (9, 26326), (12, 26383), (16, 26473), (19, 26509), (20, 26521),

Gene: Burrough_77 Start: 27147, Stop: 27473, Start Num: 3

Candidate Starts for Burrough_77:

(Start: 3 @27147 has 167 MA's), (5, 27180), (8, 27261), (9, 27270), (12, 27327), (16, 27417), (17, 27435), (19, 27453), (20, 27465),

Gene: Bxz1_77 Start: 28198, Stop: 28524, Start Num: 3

Candidate Starts for Bxz1_77:

(Start: 3 @28198 has 167 MA's), (5, 28231), (8, 28312), (9, 28321), (12, 28378), (16, 28468), (17, 28486), (19, 28504), (20, 28516),

Gene: Cactojaque_72 Start: 25785, Stop: 26111, Start Num: 3

Candidate Starts for Cactojaque_72:

(Start: 3 @25785 has 167 MA's), (5, 25818), (8, 25899), (9, 25908), (12, 25965), (16, 26055), (17, 26073), (19, 26091), (20, 26103),

Gene: Cali_72 Start: 27249, Stop: 27575, Start Num: 3

Candidate Starts for Cali_72:

(Start: 3 @27249 has 167 MA's), (5, 27282), (8, 27363), (9, 27372), (12, 27429), (16, 27519), (17, 27537), (19, 27555), (20, 27567),

Gene: Cane17_65 Start: 23662, Stop: 23988, Start Num: 3

Candidate Starts for Cane17_65:

(Start: 3 @23662 has 167 MA's), (5, 23695), (8, 23776), (9, 23785), (12, 23842), (16, 23932), (19, 23968), (20, 23980),

Gene: Capablanca_79 Start: 27504, Stop: 27830, Start Num: 3

Candidate Starts for Capablanca_79:

(Start: 3 @27504 has 167 MA's), (5, 27537), (8, 27618), (9, 27627), (12, 27684), (16, 27774), (19, 27810), (20, 27822),

Gene: Caravan_73 Start: 26542, Stop: 26868, Start Num: 3

Candidate Starts for Caravan_73:

(Start: 3 @26542 has 167 MA's), (5, 26575), (8, 26656), (9, 26665), (12, 26722), (16, 26812), (19, 26848), (20, 26860),

Gene: Catera_75 Start: 25925, Stop: 26251, Start Num: 3

Candidate Starts for Catera_75:

(Start: 3 @25925 has 167 MA's), (5, 25958), (8, 26039), (9, 26048), (12, 26105), (16, 26195), (17, 26213), (19, 26231), (20, 26243),

Gene: Chargie21_73 Start: 25861, Stop: 26187, Start Num: 3

Candidate Starts for Chargie21_73:

(Start: 3 @25861 has 167 MA's), (5, 25894), (8, 25975), (9, 25984), (12, 26041), (16, 26131), (17, 26149), (19, 26167), (20, 26179),

Gene: CharlieB_73 Start: 25247, Stop: 25573, Start Num: 3

Candidate Starts for CharlieB_73:

(Start: 3 @25247 has 167 MA's), (5, 25280), (8, 25361), (9, 25370), (12, 25427), (16, 25517), (17, 25535), (19, 25553), (20, 25565),

Gene: ChaylaJr_72 Start: 25576, Stop: 25902, Start Num: 3

Candidate Starts for ChaylaJr_72:

(Start: 3 @25576 has 167 MA's), (5, 25609), (8, 25690), (9, 25699), (12, 25756), (16, 25846), (17, 25864), (19, 25882), (20, 25894),

Gene: ChickenPhender_73 Start: 25909, Stop: 26235, Start Num: 3

Candidate Starts for ChickenPhender_73:

(Start: 3 @25909 has 167 MA's), (5, 25942), (8, 26023), (9, 26032), (12, 26089), (16, 26179), (17, 26197), (19, 26215), (20, 26227),

Gene: Chomp_74 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Chomp_74:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (17, 26667), (19, 26685), (20, 26697),

Gene: CindyLou_78 Start: 26904, Stop: 27230, Start Num: 3

Candidate Starts for CindyLou_78:

(Start: 3 @26904 has 167 MA's), (5, 26937), (8, 27018), (9, 27027), (12, 27084), (16, 27174), (17, 27192), (19, 27210), (20, 27222),

Gene: Colt_67 Start: 24724, Stop: 25050, Start Num: 3

Candidate Starts for Colt_67:

(Start: 3 @24724 has 167 MA's), (5, 24757), (8, 24838), (9, 24847), (12, 24904), (16, 24994), (19, 25030), (20, 25042),

Gene: Concombres_84 Start: 29833, Stop: 30159, Start Num: 3

Candidate Starts for Concombres_84:

(Start: 3 @29833 has 167 MA's), (5, 29866), (8, 29947), (9, 29956), (12, 30013), (16, 30103), (19, 30139), (20, 30151),

Gene: DTDevon_78 Start: 27543, Stop: 27869, Start Num: 3

Candidate Starts for DTDevon_78:

(Start: 3 @27543 has 167 MA's), (5, 27576), (8, 27657), (9, 27666), (12, 27723), (16, 27813), (17, 27831), (19, 27849), (20, 27861),

Gene: Daffodil_81 Start: 27468, Stop: 27794, Start Num: 3

Candidate Starts for Daffodil_81:

(Start: 3 @27468 has 167 MA's), (5, 27501), (8, 27582), (9, 27591), (12, 27648), (16, 27738), (19, 27774), (20, 27786),

Gene: Dandelion_83 Start: 29549, Stop: 29875, Start Num: 3

Candidate Starts for Dandelion_83:

(Start: 3 @29549 has 167 MA's), (5, 29582), (8, 29663), (9, 29672), (12, 29729), (16, 29819), (19, 29855), (20, 29867),

Gene: Darko_77 Start: 27286, Stop: 27612, Start Num: 3

Candidate Starts for Darko_77:

(Start: 3 @27286 has 167 MA's), (5, 27319), (8, 27400), (9, 27409), (12, 27466), (16, 27556), (17, 27574), (19, 27592), (20, 27604),

Gene: Delilah_77 Start: 27469, Stop: 27795, Start Num: 3

Candidate Starts for Delilah_77:

(Start: 3 @27469 has 167 MA's), (5, 27502), (8, 27583), (9, 27592), (12, 27649), (16, 27739), (19, 27775), (20, 27787),

Gene: Delylah_80 Start: 27261, Stop: 27587, Start Num: 3

Candidate Starts for Delylah_80:

(Start: 3 @27261 has 167 MA's), (5, 27294), (8, 27375), (9, 27384), (12, 27441), (16, 27531), (19, 27567), (20, 27579),

Gene: Derek_77 Start: 26710, Stop: 27036, Start Num: 3

Candidate Starts for Derek_77:

(Start: 3 @26710 has 167 MA's), (5, 26743), (8, 26824), (9, 26833), (12, 26890), (16, 26980), (17, 26998), (19, 27016), (20, 27028),

Gene: Dietrick_70 Start: 25587, Stop: 25913, Start Num: 3

Candidate Starts for Dietrick_70:

(Start: 3 @25587 has 167 MA's), (5, 25620), (8, 25701), (9, 25710), (12, 25767), (16, 25857), (19, 25893), (20, 25905),

Gene: DirtMonster_70 Start: 26106, Stop: 26432, Start Num: 3

Candidate Starts for DirtMonster_70:

(Start: 3 @26106 has 167 MA's), (5, 26139), (8, 26220), (9, 26229), (12, 26286), (16, 26376), (17, 26394), (19, 26412), (20, 26424),

Gene: DrPhinkDaddy_76 Start: 27524, Stop: 27850, Start Num: 3

Candidate Starts for DrPhinkDaddy_76:

(Start: 3 @27524 has 167 MA's), (5, 27557), (8, 27638), (9, 27647), (12, 27704), (16, 27794), (19, 27830), (20, 27842),

Gene: Drazdys_77 Start: 27216, Stop: 27542, Start Num: 3

Candidate Starts for Drazdys_77:

(Start: 3 @27216 has 167 MA's), (5, 27249), (8, 27330), (9, 27339), (12, 27396), (16, 27486), (17, 27504), (19, 27522), (20, 27534),

Gene: ET08_66 Start: 25115, Stop: 25441, Start Num: 3

Candidate Starts for ET08_66:

(Start: 3 @25115 has 167 MA's), (5, 25148), (8, 25229), (9, 25238), (12, 25295), (16, 25385), (17, 25403), (19, 25421), (20, 25433),

Gene: EasyJones_79 Start: 26968, Stop: 27294, Start Num: 3

Candidate Starts for EasyJones_79:

(Start: 3 @26968 has 167 MA's), (5, 27001), (8, 27082), (9, 27091), (12, 27148), (16, 27238), (17, 27256), (19, 27274), (20, 27286),

Gene: EggyFarm_84 Start: 29555, Stop: 29881, Start Num: 3

Candidate Starts for EggyFarm_84:

(Start: 3 @29555 has 167 MA's), (5, 29588), (8, 29669), (9, 29678), (12, 29735), (16, 29825), (19, 29861), (20, 29873),

Gene: EmToTheThree_80 Start: 28941, Stop: 29267, Start Num: 3

Candidate Starts for EmToTheThree_80:

(Start: 3 @28941 has 167 MA's), (5, 28974), (8, 29055), (9, 29064), (12, 29121), (16, 29211), (19, 29247), (20, 29259),

Gene: EmmaElysia_76 Start: 25949, Stop: 26275, Start Num: 3

Candidate Starts for EmmaElysia_76:

(Start: 3 @25949 has 167 MA's), (5, 25982), (8, 26063), (9, 26072), (12, 26129), (16, 26219), (17, 26237), (19, 26255), (20, 26267),

Gene: Erdmann_77 Start: 27469, Stop: 27795, Start Num: 3

Candidate Starts for Erdmann_77:

(Start: 3 @27469 has 167 MA's), (5, 27502), (8, 27583), (9, 27592), (12, 27649), (16, 27739), (19, 27775), (20, 27787),

Gene: ErnieJ_73 Start: 25865, Stop: 26191, Start Num: 3

Candidate Starts for ErnieJ_73:

(Start: 3 @25865 has 167 MA's), (5, 25898), (8, 25979), (9, 25988), (12, 26045), (16, 26135), (17, 26153), (19, 26171), (20, 26183),

Gene: Essence_74 Start: 25462, Stop: 25788, Start Num: 3

Candidate Starts for Essence_74:

(Start: 3 @25462 has 167 MA's), (5, 25495), (8, 25576), (9, 25585), (12, 25642), (16, 25732), (17, 25750), (19, 25768), (20, 25780),

Gene: Ewok_78 Start: 27471, Stop: 27797, Start Num: 3

Candidate Starts for Ewok_78:

(Start: 3 @27471 has 167 MA's), (5, 27504), (8, 27585), (9, 27594), (12, 27651), (16, 27741), (19, 27777), (20, 27789),

Gene: Flabslab_72 Start: 25688, Stop: 26014, Start Num: 3

Candidate Starts for Flabslab_72:

(Start: 3 @25688 has 167 MA's), (5, 25721), (8, 25802), (9, 25811), (12, 25868), (16, 25958), (17, 25976), (19, 25994), (20, 26006),

Gene: Fludd_77 Start: 26308, Stop: 26634, Start Num: 3

Candidate Starts for Fludd_77:

(Start: 3 @26308 has 167 MA's), (5, 26341), (8, 26422), (9, 26431), (12, 26488), (16, 26578), (17, 26596), (19, 26614), (20, 26626),

Gene: FoxtrotP1_77 Start: 27871, Stop: 28197, Start Num: 3

Candidate Starts for FoxtrotP1_77:

(Start: 3 @27871 has 167 MA's), (5, 27904), (8, 27985), (9, 27994), (12, 28051), (16, 28141), (19, 28177), (20, 28189),

Gene: FrayBell_83 Start: 28801, Stop: 29127, Start Num: 3

Candidate Starts for FrayBell_83:

(Start: 3 @28801 has 167 MA's), (5, 28834), (8, 28915), (9, 28924), (12, 28981), (16, 29071), (19, 29107), (20, 29119),

Gene: FudgeTart_77 Start: 26584, Stop: 26910, Start Num: 3

Candidate Starts for FudgeTart_77:

(Start: 3 @26584 has 167 MA's), (5, 26617), (8, 26698), (9, 26707), (12, 26764), (16, 26854), (17, 26872), (19, 26890), (20, 26902),

Gene: Gabriel_79 Start: 26612, Stop: 26938, Start Num: 3

Candidate Starts for Gabriel_79:

(Start: 3 @26612 has 167 MA's), (5, 26645), (8, 26726), (9, 26735), (12, 26792), (16, 26882), (17, 26900), (19, 26918), (20, 26930),

Gene: Gamgam_77 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Gamgam_77:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Ghost_76 Start: 26379, Stop: 26705, Start Num: 3
Candidate Starts for Ghost_76:
(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Gizmo_81 Start: 27152, Stop: 27478, Start Num: 3
Candidate Starts for Gizmo_81:
(Start: 3 @27152 has 167 MA's), (5, 27185), (8, 27266), (9, 27275), (12, 27332), (16, 27422), (19, 27458), (20, 27470),

Gene: Grasshills_84 Start: 29555, Stop: 29881, Start Num: 3
Candidate Starts for Grasshills_84:
(Start: 3 @29555 has 167 MA's), (5, 29588), (8, 29669), (9, 29678), (12, 29735), (16, 29825), (19, 29861), (20, 29873),

Gene: Greely_76 Start: 28696, Stop: 28998, Start Num: 4
Candidate Starts for Greely_76:
(Start: 2 @28639 has 2 MA's), (4, 28696), (15, 28924),

Gene: Grungle_65 Start: 23799, Stop: 24125, Start Num: 3
Candidate Starts for Grungle_65:
(Start: 3 @23799 has 167 MA's), (5, 23832), (8, 23913), (9, 23922), (12, 23979), (16, 24069), (17, 24087), (19, 24105), (20, 24117),

Gene: Guwapp_76 Start: 26474, Stop: 26800, Start Num: 3
Candidate Starts for Guwapp_76:
(Start: 3 @26474 has 167 MA's), (5, 26507), (8, 26588), (9, 26597), (12, 26654), (16, 26744), (17, 26762), (19, 26780), (20, 26792),

Gene: HyRo_70 Start: 26079, Stop: 26405, Start Num: 3
Candidate Starts for HyRo_70:
(Start: 3 @26079 has 167 MA's), (5, 26112), (8, 26193), (9, 26202), (12, 26259), (16, 26349), (19, 26385), (20, 26397),

Gene: I3_81 Start: 27751, Stop: 28077, Start Num: 3
Candidate Starts for I3_81:
(Start: 3 @27751 has 167 MA's), (5, 27784), (8, 27865), (9, 27874), (12, 27931), (16, 28021), (19, 28057), (20, 28069),

Gene: IkeLoa_71 Start: 25717, Stop: 26043, Start Num: 3
Candidate Starts for IkeLoa_71:
(Start: 3 @25717 has 167 MA's), (5, 25750), (8, 25831), (9, 25840), (12, 25897), (16, 25987), (19, 26023), (20, 26035),

Gene: InigoMontoya_78 Start: 26340, Stop: 26666, Start Num: 3
Candidate Starts for InigoMontoya_78:
(Start: 3 @26340 has 167 MA's), (5, 26373), (8, 26454), (9, 26463), (12, 26520), (16, 26610), (19, 26646), (20, 26658),

Gene: InterFolia_86 Start: 29921, Stop: 30247, Start Num: 3
Candidate Starts for InterFolia_86:
(Start: 3 @29921 has 167 MA's), (5, 29954), (8, 30035), (9, 30044), (12, 30101), (16, 30191), (19, 30227), (20, 30239),

Gene: Iota_71 Start: 26158, Stop: 26484, Start Num: 3

Candidate Starts for Iota_71:

(Start: 3 @26158 has 167 MA's), (5, 26191), (8, 26272), (9, 26281), (12, 26338), (16, 26428), (17, 26446), (19, 26464), (20, 26476),

Gene: Issimir_75 Start: 27412, Stop: 27738, Start Num: 3

Candidate Starts for Issimir_75:

(Start: 3 @27412 has 167 MA's), (5, 27445), (8, 27526), (9, 27535), (12, 27592), (16, 27682), (19, 27718), (20, 27730),

Gene: Izajani_77 Start: 27485, Stop: 27811, Start Num: 3

Candidate Starts for Izajani_77:

(Start: 3 @27485 has 167 MA's), (5, 27518), (8, 27599), (9, 27608), (12, 27665), (16, 27755), (19, 27791), (20, 27803),

Gene: JPickles_75 Start: 24806, Stop: 25132, Start Num: 3

Candidate Starts for JPickles_75:

(Start: 3 @24806 has 167 MA's), (5, 24839), (8, 24920), (9, 24929), (12, 24986), (16, 25076), (19, 25112), (20, 25124),

Gene: Janiyra_79 Start: 27138, Stop: 27464, Start Num: 3

Candidate Starts for Janiyra_79:

(Start: 3 @27138 has 167 MA's), (5, 27171), (8, 27252), (9, 27261), (12, 27318), (16, 27408), (17, 27426), (19, 27444), (20, 27456),

Gene: JayJay_79 Start: 27965, Stop: 28291, Start Num: 3

Candidate Starts for JayJay_79:

(Start: 3 @27965 has 167 MA's), (5, 27998), (8, 28079), (9, 28088), (12, 28145), (16, 28235), (19, 28271), (20, 28283),

Gene: Jaygup_77 Start: 26376, Stop: 26702, Start Num: 3

Candidate Starts for Jaygup_77:

(Start: 3 @26376 has 167 MA's), (5, 26409), (8, 26490), (9, 26499), (12, 26556), (16, 26646), (17, 26664), (19, 26682), (20, 26694),

Gene: Jedediah_80 Start: 26876, Stop: 27202, Start Num: 3

Candidate Starts for Jedediah_80:

(Start: 3 @26876 has 167 MA's), (5, 26909), (8, 26990), (9, 26999), (12, 27056), (16, 27146), (17, 27164), (19, 27182), (20, 27194),

Gene: Jemmno_77 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Jemmno_77:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Jessibeth14_76 Start: 27254, Stop: 27580, Start Num: 3

Candidate Starts for Jessibeth14_76:

(Start: 3 @27254 has 167 MA's), (5, 27287), (8, 27368), (9, 27377), (12, 27434), (16, 27524), (19, 27560), (20, 27572),

Gene: JulietS_69 Start: 24680, Stop: 25006, Start Num: 3

Candidate Starts for JulietS_69:

(Start: 3 @24680 has 167 MA's), (5, 24713), (8, 24794), (9, 24803), (12, 24860), (16, 24950), (19, 24986), (20, 24998),

Gene: JustHall_73 Start: 26698, Stop: 27024, Start Num: 3

Candidate Starts for JustHall_73:

(Start: 3 @26698 has 167 MA's), (5, 26731), (8, 26812), (9, 26821), (12, 26878), (16, 26968), (17, 26986), (19, 27004), (20, 27016),

Gene: Kamryn_77 Start: 27411, Stop: 27737, Start Num: 3

Candidate Starts for Kamryn_77:

(Start: 3 @27411 has 167 MA's), (5, 27444), (8, 27525), (9, 27534), (12, 27591), (16, 27681), (19, 27717), (20, 27729),

Gene: Kboogie_80 Start: 26420, Stop: 26746, Start Num: 3

Candidate Starts for Kboogie_80:

(Start: 3 @26420 has 167 MA's), (5, 26453), (8, 26534), (9, 26543), (12, 26600), (16, 26690), (17, 26708), (19, 26726), (20, 26738),

Gene: Khaleesi_76 Start: 27216, Stop: 27542, Start Num: 3

Candidate Starts for Khaleesi_76:

(Start: 3 @27216 has 167 MA's), (5, 27249), (8, 27330), (9, 27339), (12, 27396), (16, 27486), (19, 27522), (20, 27534),

Gene: Koguma_73 Start: 24900, Stop: 25226, Start Num: 3

Candidate Starts for Koguma_73:

(Start: 3 @24900 has 167 MA's), (5, 24933), (8, 25014), (9, 25023), (12, 25080), (16, 25170), (17, 25188), (19, 25206), (20, 25218),

Gene: LRRHood_71 Start: 26719, Stop: 27045, Start Num: 3

Candidate Starts for LRRHood_71:

(Start: 3 @26719 has 167 MA's), (5, 26752), (8, 26833), (9, 26842), (12, 26899), (16, 26989), (19, 27025), (20, 27037),

Gene: Latch_77 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Latch_77:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Lee7_75 Start: 27469, Stop: 27795, Start Num: 3

Candidate Starts for Lee7_75:

(Start: 3 @27469 has 167 MA's), (5, 27502), (8, 27583), (9, 27592), (12, 27649), (16, 27739), (19, 27775), (20, 27787),

Gene: LifeSavor_76 Start: 26099, Stop: 26425, Start Num: 3

Candidate Starts for LifeSavor_76:

(Start: 3 @26099 has 167 MA's), (5, 26132), (8, 26213), (9, 26222), (12, 26279), (16, 26369), (17, 26387), (19, 26405), (20, 26417),

Gene: LinStu_76 Start: 27878, Stop: 28204, Start Num: 3

Candidate Starts for LinStu_76:

(Start: 3 @27878 has 167 MA's), (5, 27911), (8, 27992), (9, 28001), (12, 28058), (16, 28148), (19, 28184), (20, 28196),

Gene: Littleton_77 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Littleton_77:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (17, 26667), (19, 26685), (20, 26697),

Gene: Loanshark_77 Start: 27469, Stop: 27795, Start Num: 3

Candidate Starts for Loanshark_77:

(Start: 3 @27469 has 167 MA's), (5, 27502), (8, 27583), (9, 27592), (12, 27649), (16, 27739), (19, 27775), (20, 27787),

Gene: LolaVinca_79 Start: 28629, Stop: 28955, Start Num: 3

Candidate Starts for LolaVinca_79:

(Start: 3 @28629 has 167 MA's), (5, 28662), (8, 28743), (9, 28752), (12, 28809), (16, 28899), (19, 28935), (20, 28947),

Gene: LordLeafolot_81 Start: 28800, Stop: 29126, Start Num: 3

Candidate Starts for LordLeafolot_81:

(Start: 3 @28800 has 167 MA's), (5, 28833), (8, 28914), (9, 28923), (12, 28980), (16, 29070), (19, 29106), (20, 29118),

Gene: Lukilu_67 Start: 25922, Stop: 26248, Start Num: 3

Candidate Starts for Lukilu_67:

(Start: 3 @25922 has 167 MA's), (5, 25955), (8, 26036), (9, 26045), (12, 26102), (16, 26192), (19, 26228), (20, 26240),

Gene: Maby2021_77 Start: 27150, Stop: 27476, Start Num: 3

Candidate Starts for Maby2021_77:

(Start: 3 @27150 has 167 MA's), (5, 27183), (8, 27264), (9, 27273), (12, 27330), (16, 27420), (19, 27456), (20, 27468),

Gene: Mangeria_77 Start: 26890, Stop: 27216, Start Num: 3

Candidate Starts for Mangeria_77:

(Start: 3 @26890 has 167 MA's), (5, 26923), (8, 27004), (9, 27013), (12, 27070), (16, 27160), (19, 27196), (20, 27208),

Gene: Matsumoto_75 Start: 26340, Stop: 26666, Start Num: 3

Candidate Starts for Matsumoto_75:

(Start: 3 @26340 has 167 MA's), (5, 26373), (8, 26454), (9, 26463), (12, 26520), (16, 26610), (17, 26628), (19, 26646), (20, 26658),

Gene: McGee_78 Start: 25563, Stop: 25889, Start Num: 3

Candidate Starts for McGee_78:

(Start: 3 @25563 has 167 MA's), (5, 25596), (8, 25677), (9, 25686), (12, 25743), (16, 25833), (19, 25869), (20, 25881),

Gene: McWolfish_75 Start: 26897, Stop: 27223, Start Num: 3

Candidate Starts for McWolfish_75:

(Start: 3 @26897 has 167 MA's), (5, 26930), (8, 27011), (9, 27020), (12, 27077), (16, 27167), (19, 27203), (20, 27215),

Gene: Megamind_76 Start: 27135, Stop: 27461, Start Num: 3

Candidate Starts for Megamind_76:

(Start: 3 @27135 has 167 MA's), (5, 27168), (8, 27249), (9, 27258), (12, 27315), (16, 27405), (19, 27441), (20, 27453),

Gene: Melpomini_71 Start: 24933, Stop: 25259, Start Num: 3

Candidate Starts for Melpomini_71:

(Start: 3 @24933 has 167 MA's), (5, 24966), (8, 25047), (9, 25056), (12, 25113), (16, 25203), (17, 25221), (19, 25239), (20, 25251),

Gene: MikeLiesIn_77 Start: 27482, Stop: 27808, Start Num: 3

Candidate Starts for MikeLiesIn_77:

(Start: 3 @27482 has 167 MA's), (5, 27515), (8, 27596), (9, 27605), (12, 27662), (16, 27752), (19, 27788), (20, 27800),

Gene: Mikro_75 Start: 28276, Stop: 28602, Start Num: 3

Candidate Starts for Mikro_75:

(Start: 3 @28276 has 167 MA's), (5, 28309), (8, 28390), (9, 28399), (12, 28456), (16, 28546), (19, 28582), (20, 28594),

Gene: MoMoMixon_77 Start: 27581, Stop: 27907, Start Num: 3

Candidate Starts for MoMoMixon_77:

(Start: 3 @27581 has 167 MA's), (5, 27614), (8, 27695), (9, 27704), (12, 27761), (16, 27851), (19, 27887), (20, 27899),

Gene: Momo_76 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Momo_76:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Morizzled23_77 Start: 26548, Stop: 26874, Start Num: 3

Candidate Starts for Morizzled23_77:

(Start: 3 @26548 has 167 MA's), (5, 26581), (8, 26662), (9, 26671), (12, 26728), (16, 26818), (17, 26836), (19, 26854), (20, 26866),

Gene: Myrna_72 Start: 28638, Stop: 29006, Start Num: 2

Candidate Starts for Myrna_72:

(Start: 2 @28638 has 2 MA's), (4, 28704), (8, 28800), (10, 28818), (11, 28860), (15, 28932),

Gene: Naija_76 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Naija_76:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Napoleon13_73 Start: 25277, Stop: 25603, Start Num: 3

Candidate Starts for Napoleon13_73:

(Start: 3 @25277 has 167 MA's), (5, 25310), (8, 25391), (9, 25400), (12, 25457), (16, 25547), (19, 25583), (20, 25595),

Gene: Nappy_78 Start: 27771, Stop: 28097, Start Num: 3

Candidate Starts for Nappy_78:

(Start: 3 @27771 has 167 MA's), (5, 27804), (8, 27885), (9, 27894), (12, 27951), (16, 28041), (19, 28077), (20, 28089),

Gene: Naval22_82 Start: 28491, Stop: 28817, Start Num: 3

Candidate Starts for Naval22_82:

(Start: 3 @28491 has 167 MA's), (5, 28524), (8, 28605), (9, 28614), (12, 28671), (16, 28761), (19, 28797), (20, 28809),

Gene: NedWong_78 Start: 27469, Stop: 27795, Start Num: 3

Candidate Starts for NedWong_78:

(Start: 3 @27469 has 167 MA's), (5, 27502), (8, 27583), (9, 27592), (12, 27649), (16, 27739), (19, 27775), (20, 27787),

Gene: Ngannou_73 Start: 25361, Stop: 25687, Start Num: 3

Candidate Starts for Ngannou_73:

(Start: 3 @25361 has 167 MA's), (5, 25394), (8, 25475), (9, 25484), (12, 25541), (16, 25631), (19, 25667), (20, 25679),

Gene: Nidhogg_77 Start: 27323, Stop: 27649, Start Num: 3

Candidate Starts for Nidhogg_77:

(Start: 3 @27323 has 167 MA's), (5, 27356), (8, 27437), (9, 27446), (12, 27503), (16, 27593), (19, 27629), (20, 27641),

Gene: NoodleTree_80 Start: 27918, Stop: 28244, Start Num: 3

Candidate Starts for NoodleTree_80:

(Start: 3 @27918 has 167 MA's), (5, 27951), (8, 28032), (9, 28041), (12, 28098), (16, 28188), (19, 28224), (20, 28236),

Gene: Norm_78 Start: 27471, Stop: 27797, Start Num: 3

Candidate Starts for Norm_78:

(Start: 3 @27471 has 167 MA's), (5, 27504), (8, 27585), (9, 27594), (12, 27651), (16, 27741), (19, 27777), (20, 27789),

Gene: NuevoMundo_83 Start: 28848, Stop: 29174, Start Num: 3

Candidate Starts for NuevoMundo_83:

(Start: 3 @28848 has 167 MA's), (5, 28881), (8, 28962), (9, 28971), (12, 29028), (16, 29118), (19, 29154), (20, 29166),

Gene: ParkTD_78 Start: 27465, Stop: 27791, Start Num: 3

Candidate Starts for ParkTD_78:

(Start: 3 @27465 has 167 MA's), (5, 27498), (8, 27579), (9, 27588), (12, 27645), (16, 27735), (19, 27771), (20, 27783),

Gene: Patter_77 Start: 26396, Stop: 26722, Start Num: 3

Candidate Starts for Patter_77:

(Start: 3 @26396 has 167 MA's), (5, 26429), (8, 26510), (9, 26519), (12, 26576), (16, 26666), (19, 26702), (20, 26714),

Gene: Phabba_77 Start: 28488, Stop: 28844, Start Num: 2

Candidate Starts for Phabba_77:

(Start: 2 @28488 has 2 MA's), (4, 28545), (8, 28638), (10, 28656), (21, 28839),

Gene: Phlegm_79 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Phlegm_79:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Phox_73 Start: 27401, Stop: 27727, Start Num: 3

Candidate Starts for Phox_73:

(Start: 3 @27401 has 167 MA's), (5, 27434), (8, 27515), (9, 27524), (12, 27581), (16, 27671), (19, 27707), (20, 27719),

Gene: Phusco_77 Start: 27189, Stop: 27515, Start Num: 3

Candidate Starts for Phusco_77:

(Start: 3 @27189 has 167 MA's), (5, 27222), (8, 27303), (9, 27312), (12, 27369), (16, 27459), (17, 27477), (19, 27495), (20, 27507),

Gene: Pier_81 Start: 27549, Stop: 27875, Start Num: 3

Candidate Starts for Pier_81:

(Start: 3 @27549 has 167 MA's), (5, 27582), (8, 27663), (9, 27672), (12, 27729), (16, 27819), (19, 27855), (20, 27867),

Gene: Pinkcreek_67 Start: 24560, Stop: 24886, Start Num: 3

Candidate Starts for Pinkcreek_67:

(Start: 3 @24560 has 167 MA's), (5, 24593), (8, 24674), (9, 24683), (12, 24740), (16, 24830), (17, 24848), (19, 24866), (20, 24878),

Gene: Pio_80 Start: 27816, Stop: 28142, Start Num: 3

Candidate Starts for Pio_80:

(Start: 3 @27816 has 167 MA's), (5, 27849), (8, 27930), (9, 27939), (12, 27996), (16, 28086), (17, 28104), (19, 28122), (20, 28134),

Gene: Pivoine_76 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for Pivoine_76:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Pleione_79 Start: 27468, Stop: 27794, Start Num: 3

Candidate Starts for Pleione_79:

(Start: 3 @27468 has 167 MA's), (5, 27501), (8, 27582), (9, 27591), (12, 27648), (16, 27738), (19, 27774), (20, 27786),

Gene: PurduePete_77 Start: 27513, Stop: 27839, Start Num: 3

Candidate Starts for PurduePete_77:

(Start: 3 @27513 has 167 MA's), (5, 27546), (8, 27627), (9, 27636), (12, 27693), (16, 27783), (19, 27819), (20, 27831),

Gene: QBert_71 Start: 26912, Stop: 27238, Start Num: 3

Candidate Starts for QBert_71:

(Start: 3 @26912 has 167 MA's), (5, 26945), (8, 27026), (9, 27035), (12, 27092), (16, 27182), (17, 27200), (19, 27218), (20, 27230),

Gene: Quasimodo_77 Start: 27397, Stop: 27723, Start Num: 3

Candidate Starts for Quasimodo_77:

(Start: 3 @27397 has 167 MA's), (5, 27430), (8, 27511), (9, 27520), (12, 27577), (16, 27667), (19, 27703), (20, 27715),

Gene: Rabinovish_74 Start: 27274, Stop: 27600, Start Num: 3

Candidate Starts for Rabinovish_74:

(Start: 3 @27274 has 167 MA's), (5, 27307), (8, 27388), (9, 27397), (12, 27454), (13, 27460), (16, 27544), (17, 27562), (19, 27580), (20, 27592),

Gene: Rahel_76 Start: 25977, Stop: 26303, Start Num: 3

Candidate Starts for Rahel_76:

(Start: 3 @25977 has 167 MA's), (5, 26010), (8, 26091), (9, 26100), (12, 26157), (16, 26247), (17, 26265), (19, 26283), (20, 26295),

Gene: Rizal_74 Start: 26386, Stop: 26712, Start Num: 3

Candidate Starts for Rizal_74:

(Start: 3 @26386 has 167 MA's), (5, 26419), (8, 26500), (9, 26509), (12, 26566), (16, 26656), (19, 26692), (20, 26704),

Gene: RoMag_72 Start: 26711, Stop: 27037, Start Num: 3

Candidate Starts for RoMag_72:

(Start: 3 @26711 has 167 MA's), (5, 26744), (8, 26825), (9, 26834), (12, 26891), (16, 26981), (19, 27017), (20, 27029),

Gene: Ronan_70 Start: 24218, Stop: 24544, Start Num: 3

Candidate Starts for Ronan_70:

(Start: 3 @24218 has 167 MA's), (5, 24251), (8, 24332), (9, 24341), (12, 24398), (16, 24488), (19, 24524), (20, 24536),

Gene: Roots515_76 Start: 26838, Stop: 27164, Start Num: 3

Candidate Starts for Roots515_76:

(Start: 3 @26838 has 167 MA's), (5, 26871), (8, 26952), (9, 26961), (12, 27018), (16, 27108), (17, 27126), (19, 27144), (20, 27156),

Gene: Salacia_81 Start: 27491, Stop: 27817, Start Num: 3

Candidate Starts for Salacia_81:

(Start: 3 @27491 has 167 MA's), (5, 27524), (8, 27605), (9, 27614), (12, 27671), (16, 27761), (17, 27779), (19, 27797), (20, 27809),

Gene: Sauce_77 Start: 26266, Stop: 26592, Start Num: 3

Candidate Starts for Sauce_77:

(Start: 3 @26266 has 167 MA's), (5, 26299), (8, 26380), (9, 26389), (12, 26446), (16, 26536), (17, 26554), (19, 26572), (20, 26584),

Gene: ScoobyDoobyDoo_67 Start: 24674, Stop: 25030, Start Num: 1

Candidate Starts for ScoobyDoobyDoo_67:

(Start: 1 @24674 has 1 MA's), (4, 24734), (6, 24797), (14, 24899), (19, 25010),

Gene: ScottMcG_73 Start: 26823, Stop: 27149, Start Num: 3

Candidate Starts for ScottMcG_73:

(Start: 3 @26823 has 167 MA's), (5, 26856), (8, 26937), (9, 26946), (12, 27003), (16, 27093), (17, 27111), (19, 27129), (20, 27141),

Gene: Sebata_77 Start: 27997, Stop: 28323, Start Num: 3

Candidate Starts for Sebata_77:

(Start: 3 @27997 has 167 MA's), (5, 28030), (8, 28111), (9, 28120), (12, 28177), (16, 28267), (19, 28303), (20, 28315),

Gene: Shaqnato_69 Start: 25141, Stop: 25467, Start Num: 3

Candidate Starts for Shaqnato_69:

(Start: 3 @25141 has 167 MA's), (5, 25174), (8, 25255), (9, 25264), (12, 25321), (16, 25411), (19, 25447), (20, 25459),

Gene: Shelob_79 Start: 28461, Stop: 28787, Start Num: 3

Candidate Starts for Shelob_79:

(Start: 3 @28461 has 167 MA's), (5, 28494), (8, 28575), (9, 28584), (12, 28641), (16, 28731), (19, 28767), (20, 28779),

Gene: ShiaLabeouf_77 Start: 26816, Stop: 27142, Start Num: 3

Candidate Starts for ShiaLabeouf_77:

(Start: 3 @26816 has 167 MA's), (5, 26849), (8, 26930), (9, 26939), (12, 26996), (16, 27086), (17, 27104), (19, 27122), (20, 27134),

Gene: Shifa_66 Start: 25103, Stop: 25429, Start Num: 3

Candidate Starts for Shifa_66:

(Start: 3 @25103 has 167 MA's), (5, 25136), (8, 25217), (9, 25226), (12, 25283), (16, 25373), (17, 25391), (19, 25409), (20, 25421),

Gene: Shnickers_77 Start: 26376, Stop: 26702, Start Num: 3

Candidate Starts for Shnickers_77:

(Start: 3 @26376 has 167 MA's), (5, 26409), (8, 26490), (9, 26499), (12, 26556), (16, 26646), (17, 26664), (19, 26682), (20, 26694),

Gene: Shrimp_77 Start: 27473, Stop: 27799, Start Num: 3

Candidate Starts for Shrimp_77:

(Start: 3 @27473 has 167 MA's), (5, 27506), (8, 27587), (9, 27596), (12, 27653), (16, 27743), (19, 27779), (20, 27791),

Gene: SilverDipper_78 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for SilverDipper_78:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: SmallFry_77 Start: 26375, Stop: 26701, Start Num: 3

Candidate Starts for SmallFry_77:

(Start: 3 @26375 has 167 MA's), (5, 26408), (8, 26489), (9, 26498), (12, 26555), (16, 26645), (17, 26663), (19, 26681), (20, 26693),

Gene: Spec_72 Start: 26099, Stop: 26425, Start Num: 3

Candidate Starts for Spec_72:

(Start: 3 @26099 has 167 MA's), (5, 26132), (8, 26213), (9, 26222), (12, 26279), (16, 26369), (17, 26387), (19, 26405), (20, 26417),

Gene: Specks_83 Start: 29263, Stop: 29589, Start Num: 3

Candidate Starts for Specks_83:

(Start: 3 @29263 has 167 MA's), (5, 29296), (8, 29377), (9, 29386), (12, 29443), (16, 29533), (19, 29569), (20, 29581),

Gene: Sprinklers_72 Start: 25638, Stop: 25964, Start Num: 3

Candidate Starts for Sprinklers_72:

(Start: 3 @25638 has 167 MA's), (5, 25671), (8, 25752), (9, 25761), (12, 25818), (16, 25908), (17, 25926), (19, 25944), (20, 25956),

Gene: Spud_76 Start: 27784, Stop: 28110, Start Num: 3

Candidate Starts for Spud_76:

(Start: 3 @27784 has 167 MA's), (5, 27817), (8, 27898), (9, 27907), (12, 27964), (16, 28054), (19, 28090), (20, 28102),

Gene: SrishMeg2525_76 Start: 27180, Stop: 27506, Start Num: 3

Candidate Starts for SrishMeg2525_76:

(Start: 3 @27180 has 167 MA's), (5, 27213), (8, 27294), (9, 27303), (12, 27360), (16, 27450), (19, 27486), (20, 27498),

Gene: StephanieG_77 Start: 28168, Stop: 28494, Start Num: 3

Candidate Starts for StephanieG_77:

(Start: 3 @28168 has 167 MA's), (5, 28201), (8, 28282), (9, 28291), (12, 28348), (16, 28438), (19, 28474), (20, 28486),

Gene: Stubby_70 Start: 25887, Stop: 26213, Start Num: 3

Candidate Starts for Stubby_70:

(Start: 3 @25887 has 167 MA's), (5, 25920), (8, 26001), (9, 26010), (12, 26067), (16, 26157), (17, 26175), (19, 26193), (20, 26205),

Gene: StubbySaigey_78 Start: 26109, Stop: 26435, Start Num: 3

Candidate Starts for StubbySaigey_78:

(Start: 3 @26109 has 167 MA's), (5, 26142), (8, 26223), (9, 26232), (12, 26289), (16, 26379), (19, 26415), (20, 26427),

Gene: Teardrop_77 Start: 26587, Stop: 26913, Start Num: 3

Candidate Starts for Teardrop_77:

(Start: 3 @26587 has 167 MA's), (5, 26620), (8, 26701), (9, 26710), (12, 26767), (16, 26857), (19, 26893), (20, 26905),

Gene: TinyTim_77 Start: 27469, Stop: 27795, Start Num: 3

Candidate Starts for TinyTim_77:

(Start: 3 @27469 has 167 MA's), (5, 27502), (8, 27583), (9, 27592), (12, 27649), (16, 27739), (19, 27775), (20, 27787),

Gene: Tonenili_91 Start: 31259, Stop: 31585, Start Num: 3

Candidate Starts for Tonenili_91:

(Start: 3 @31259 has 167 MA's), (7, 31337), (8, 31373), (12, 31439), (16, 31529), (18, 31562), (19, 31565), (20, 31577),

Gene: Tortoise16_75 Start: 27235, Stop: 27561, Start Num: 3

Candidate Starts for Tortoise16_75:

(Start: 3 @27235 has 167 MA's), (5, 27268), (8, 27349), (9, 27358), (12, 27415), (16, 27505), (19, 27541), (20, 27553),

Gene: Trinitium_73 Start: 25894, Stop: 26220, Start Num: 3

Candidate Starts for Trinitium_73:

(Start: 3 @25894 has 167 MA's), (5, 25927), (8, 26008), (9, 26017), (12, 26074), (16, 26164), (17, 26182), (19, 26200), (20, 26212),

Gene: Turret_72 Start: 25560, Stop: 25886, Start Num: 3

Candidate Starts for Turret_72:

(Start: 3 @25560 has 167 MA's), (5, 25593), (8, 25674), (9, 25683), (12, 25740), (16, 25830), (17, 25848), (19, 25866), (20, 25878),

Gene: Tyke_79 Start: 28139, Stop: 28465, Start Num: 3

Candidate Starts for Tyke_79:

(Start: 3 @28139 has 167 MA's), (5, 28172), (8, 28253), (9, 28262), (12, 28319), (16, 28409), (19, 28445), (20, 28457),

Gene: ValleyTerrace_77 Start: 26379, Stop: 26705, Start Num: 3

Candidate Starts for ValleyTerrace_77:

(Start: 3 @26379 has 167 MA's), (5, 26412), (8, 26493), (9, 26502), (12, 26559), (16, 26649), (19, 26685), (20, 26697),

Gene: Wally_75 Start: 26024, Stop: 26350, Start Num: 3

Candidate Starts for Wally_75:

(Start: 3 @26024 has 167 MA's), (5, 26057), (8, 26138), (9, 26147), (12, 26204), (16, 26294), (19, 26330), (20, 26342),

Gene: Willis_78 Start: 27364, Stop: 27690, Start Num: 3

Candidate Starts for Willis_78:

(Start: 3 @27364 has 167 MA's), (5, 27397), (8, 27478), (9, 27487), (12, 27544), (16, 27634), (19, 27670), (20, 27682),

Gene: Yassified_73 Start: 25879, Stop: 26205, Start Num: 3

Candidate Starts for Yassified_73:

(Start: 3 @25879 has 167 MA's), (5, 25912), (8, 25993), (9, 26002), (12, 26059), (13, 26065), (16, 26149), (17, 26167), (19, 26185), (20, 26197),

Gene: YemiJoy2021_78 Start: 27466, Stop: 27792, Start Num: 3

Candidate Starts for YemiJoy2021_78:

(Start: 3 @27466 has 167 MA's), (5, 27499), (8, 27580), (9, 27589), (12, 27646), (16, 27736), (19, 27772), (20, 27784),

Gene: YoungMoneyMata_77 Start: 26130, Stop: 26456, Start Num: 3

Candidate Starts for YoungMoneyMata_77:

(Start: 3 @26130 has 167 MA's), (5, 26163), (8, 26244), (9, 26253), (12, 26310), (16, 26400), (19, 26436), (20, 26448),

Gene: Yucca_76 Start: 27391, Stop: 27717, Start Num: 3

Candidate Starts for Yucca_76:

(Start: 3 @27391 has 167 MA's), (5, 27424), (8, 27505), (9, 27514), (12, 27571), (16, 27661), (19, 27697), (20, 27709),

Gene: Zalkecks_78 Start: 27154, Stop: 27480, Start Num: 3

Candidate Starts for Zalkecks_78:

(Start: 3 @27154 has 167 MA's), (5, 27187), (8, 27268), (9, 27277), (12, 27334), (16, 27424), (19, 27460), (20, 27472),

Gene: Zeenon_78 Start: 27456, Stop: 27782, Start Num: 3

Candidate Starts for Zeenon_78:

(Start: 3 @27456 has 167 MA's), (5, 27489), (8, 27570), (9, 27579), (12, 27636), (16, 27726), (19, 27762), (20, 27774),

Gene: ZygoTaiga_76 Start: 27470, Stop: 27796, Start Num: 3

Candidate Starts for ZygoTaiga_76:

(Start: 3 @27470 has 167 MA's), (5, 27503), (8, 27584), (9, 27593), (12, 27650), (16, 27740), (19, 27776), (20, 27788),