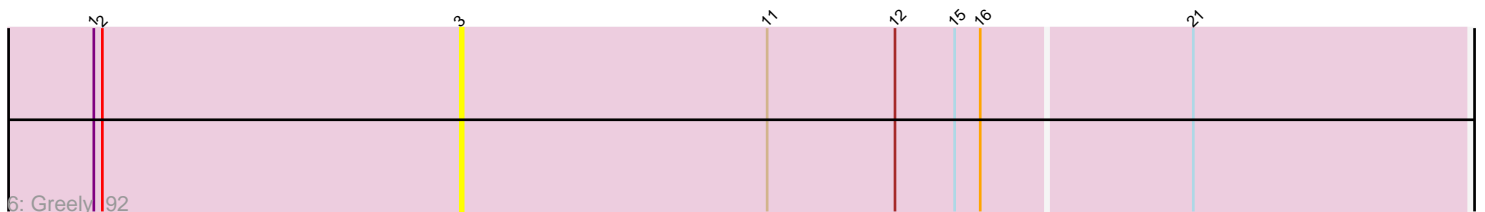
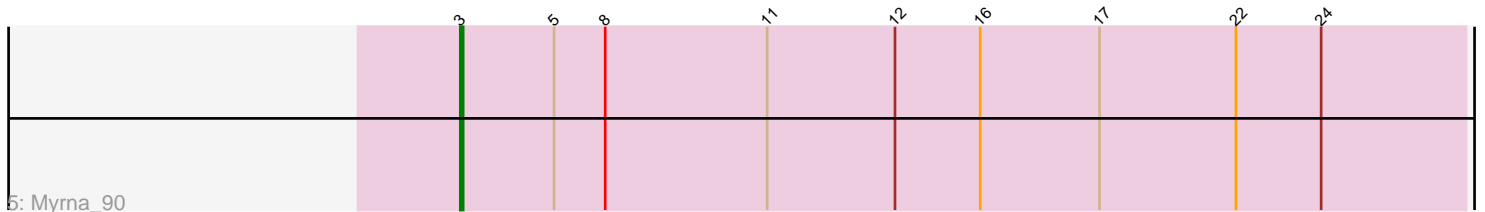
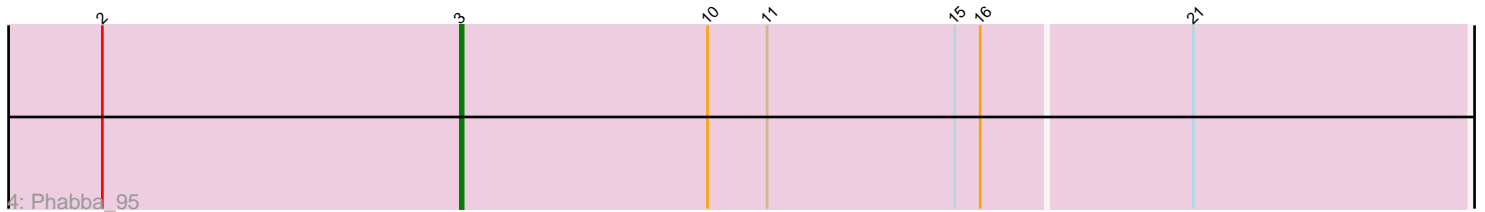
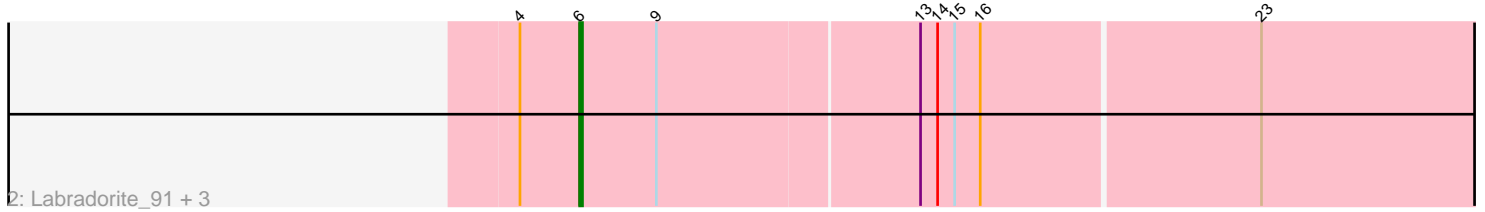
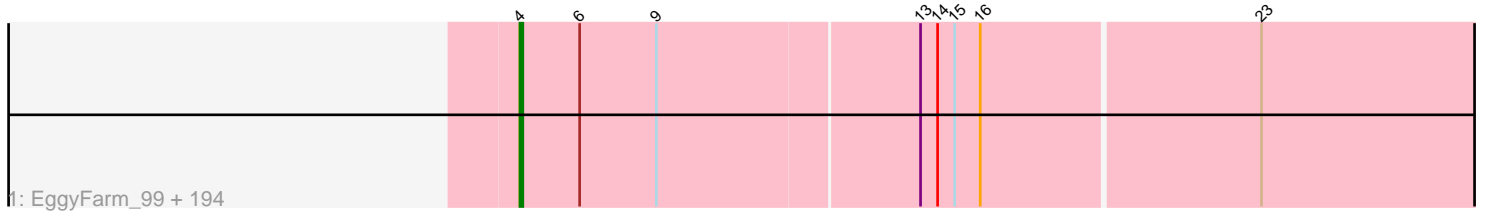


Pham 308098



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 308098 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308098 has 204 members, 20 are drafts.

Phages represented in each track:

- Track 1 : EggyFarm_99, Lethe_90, Belieber_85, Chargie21_87, Sauce_91, Napoleon13_87, Bxz1_90, Grasshills_98, ChaylaJr_86, Ading_91, Shrimp_91, FrayBell_97, Khaleesi_90, ErnieJ_87, PurduePete_91, Nidhogg_92, LordLeafolot_97, Ngannou_87, Iota_85, Salacia_95, Fludd_91, JulietS_84, Bangla1971_92, Lee7_89, Megamind_90, Rahel_90, Flabslab_86, JPickles_89, BackyardAgain_88, Amataga_91, Caravan_86, CindyLou_92, Tyke_93, Ghost_90, Halldule_84, Naija_90, Melpomini_85, YoungMoneyMata_91, ScottMcG_88, Grungle_78, DTDevon_92, ParkTD_92, Substance289_88, Ewok_92, Phox_88, Loanshark_91, Catera_89, TinyTim_91, Concombre_98, IkeLoa_85, Bigswole_96, Primadonna_85, Jemmno_91, ValleyTerrace_91, Guwapp_90, DirtMonster_84, Nappy_93, LifeSavor_90, Ablatia_89, Colt_81, Pleione_94, Bread_91, I3_97, Audrick_93, Blubba_80, Ronan_84, Teardrop_91, Pinkcreek_82, Derek_91, OrediggerDelux_89, ChickenPhender_87, Atlantean_90, Naval22_99, Cali_86, NedWong_92, Willis_92, BadAgartude_88, Morizzled23_91, LinStu_91, ArcherS7_90, JigglyPuff_97, StubbySaigey_93, InigoMontoya_92, DrPhinkDaddy_90, Jedediah_94, BeanWater_83, FoxtrotP1_91, Bipolarisk_90, Delylah_94, LolaVince_93, NoodleTree_99, ShiaLabeouf_91, Zalkecks_92, Yassified_87, Basquiat_87, Dietrick_83, Pier_95, Momo_90, Spud_91, Mangeria_91, Jessibeth14_90, Norm_92, SrishMeg2525_90, Alice_84, Janiyra_93, Quasimodo_91, Jaygup_91, Izajani_91, ET08_80, Rabinovish_88, Phusco_91, Demodog_98, Lukilu_82, QBert_85, Spec_86, Kboogie_94, Turret_86, StephanieG_90, HyRo_83, SVoro_89, EmToTheThree_94, EmmaElysia_90, Specks_97, Erdmann_92, Blackbrain_86, InterFolia_100, Stubby_84, JayJay_97, Tortoise16_89, Latch_91, Capablanca_93, Pio_95, McWolfish_89, Gamgam_91, Trinitium_87, Cactojaque_86, Darko_91, JustHall_87, Pivoine_90, Maby2021_91, BananaFence_90, Wally_90, YemiJoy2021_92, Kamryn_91, Mikro_89, SmallFry_91, Issimir_90, Rocha_90, Bonray_91, Shelob_93, Cane17_80, Delilah_91, Zeenon_93, BigCity_99, Littleton_91, Ava3_92, Drazdys_91, Adlitam_91, MikeLiesIn_92, Gizmo_95, Daffodil_96, Patter_91, MoMoMixon_92, Breeniome_91, Burrough_91, NuevoMundo_97, ZygoTaiga_90, GlutenPhree_92, Astraea_89, Babyland_91, Tainan_96, FudgeTart_91, Shifa_80, Maturis_89, Roots515_90, Matsumoto_90, Dandelion_98, Gabriel_93, CharlieB_86, Yucca_91, Asterius_94, EasyJones_94, LRRHood_85, RoMag_86, Phlegm_93, Shaqnato_83, Sebata_92, Koguma_87, Jezreel_91, McGee_92, Rizal_89, Shnickers_91, Essence_88, SilverDipper_92, Chomp_90
- Track 2 : Labradorite_91, Pupusa_96, Dessert_89, Sprinklers_86
- Track 3 : Tonenili_105
- Track 4 : Phabba_95

- Track 5 : Myrna_90
- Track 6 : Greely_92
- Track 7 : ScoobyDoobyDoo_85

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

The start number called the most often in the published annotations is 4, it was called in 180 of the 184 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia_89, Ading_91, Adlitam_91, Alice_84, Amataga_91, ArcherS7_90, Asterius_94, Astraea_89, Atlantean_90, Audrick_93, Ava3_92, Babyland_91, BackyardAgain_88, BadAgartude_88, BananaFence_90, Bangla1971_92, Basquiat_87, BeanWater_83, Belieber_85, BigCity_99, Bigswole_96, Bipolarisk_90, Blackbrain_86, Blubba_80, Bonray_91, Bread_91, Breeniome_91, Burrough_91, Bxz1_90, Cactojaque_86, Cali_86, Cane17_80, Capablanca_93, Caravan_86, Catera_89, Chargie21_87, CharlieB_86, ChaylaJr_86, ChickenPhender_87, Chomp_90, CindyLou_92, Colt_81, Concombre_98, DTDevon_92, Daffodil_96, Dandelion_98, Darko_91, Delilah_91, Delylah_94, Demodog_98, Derek_91, Dietrick_83, DirtMonster_84, DrPhinkDaddy_90, Drazdys_91, ET08_80, EasyJones_94, EggyFarm_99, EmToTheThree_94, EmmaElysia_90, Erdmann_92, ErnieJ_87, Essence_88, Ewok_92, Flabslab_86, Fludd_91, FoxtrotP1_91, FrayBell_97, FudgeTart_91, Gabriel_93, Gamgam_91, Ghost_90, Gizmo_95, GlutenPhree_92, Grasshills_98, Grungle_78, Guwapp_90, Halldule_84, HyRo_83, I3_97, IkeLoa_85, InigoMontoya_92, InterFolia_100, Iota_85, Issimir_90, Izajani_91, JPickles_89, Janiyra_93, JayJay_97, Jaygup_91, Jedediah_94, Jemmno_91, Jessibeth14_90, Jezreel_91, JigglyPuff_97, JulietS_84, JustHall_87, Kamryn_91, Kboogie_94, Khaleesi_90, Koguma_87, LRRHood_85, Latch_91, Lee7_89, Lethe_90, LifeSavor_90, LinStu_91, Littleton_91, Loanshark_91, LolaVinca_93, LordLeafolot_97, Lukilu_82, Maby2021_91, Mangeria_91, Matsumoto_90, Maturis_89, McGee_92, McWolfish_89, Megamind_90, Melpomini_85, MikeLiesIn_92, Mikro_89, MoMoMixon_92, Momo_90, Morizzled23_91, Naija_90, Napoleon13_87, Nappy_93, Naval22_99, NedWong_92, Ngannou_87, Nidhogg_92, NoodleTree_99, Norm_92, NuevoMundo_97, OrediggerDelux_89, ParkTD_92, Patter_91, Phlegm_93, Phox_88, Phusco_91, Pier_95, Pinkcreek_82, Pio_95, Pivoine_90, Pleione_94, Primadonna_85, PurduePete_91, QBert_85, Quasimodo_91, Rabinovish_88, Rahel_90, Rizal_89, RoMag_86, Rocha_90, Ronan_84, Roots515_90, SVoro_89, Salacia_95, Sauce_91, ScottMcG_88, Sebata_92, Shaqnato_83, Shelob_93, ShiaLabeouf_91, Shifa_80, Shnickers_91, Shrimp_91, SilverDipper_92, SmallFry_91, Spec_86, Specks_97, Spud_91, SrishMeg2525_90, StephanieG_90, StubbySaigey_93, Stubby_84, Substance289_88, Tainan_96, Teardrop_91, TinyTim_91, Tonenili_105, Tortoise16_89, Trinitium_87, Turret_86, Tyke_93, ValleyTerrace_91, Wally_90, Willis_92, Yassified_87, YemiJoy2021_92, YoungMoneyMata_91, Yucca_91, Zalkecks_92, Zeenon_93, ZygoTaiga_90,

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

- Dessert_89, Labradorite_91, Pupusa_96, Sprinklers_86,

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

- Greely_92, Myrna_90, Phabba_95, ScoobyDoobyDoo_85,

Summary by start number:

Start 3:

- Found in 4 of 204 (2.0%) of genes in pham
- Manual Annotations of this start: 3 of 184
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_92 (C2), Myrna_90 (C2), Phabba_95 (C2), ScoobyDoobyDoo_85 (C2),

Start 4:

- Found in 200 of 204 (98.0%) of genes in pham
- Manual Annotations of this start: 180 of 184
- Called 98.0% of time when present
- Phage (with cluster) where this start called: Ablatia_89 (C1), Ading_91 (C1), Adlitam_91 (C1), Alice_84 (C1), Amataga_91 (C1), ArcherS7_90 (C1), Asterius_94 (C1), Astraea_89 (C1), Atlantean_90 (C1), Audrick_93 (C1), Ava3_92 (C1), Babyland_91 (C1), BackyardAgain_88 (C1), BadAgartude_88 (C1), BananaFence_90 (C1), Bangla1971_92 (C1), Basquiat_87 (C1), BeanWater_83 (C1), Belieber_85 (C1), BigCity_99 (C1), Bigswole_96 (C1), Bipolarisk_90 (C1), Blackbrain_86 (C1), Blubba_80 (C1), Bonray_91 (C1), Bread_91 (C1), Breeniome_91 (C1), Burrough_91 (C1), Bxz1_90 (C1), Cactojaque_86 (C1), Cali_86 (C1), Cane17_80 (C1), Capablanca_93 (C1), Caravan_86 (C1), Catera_89 (C1), Chargie21_87 (C1), CharlieB_86 (C1), ChaylaJr_86 (C1), ChickenPhender_87 (C1), Chomp_90 (C1), CindyLou_92 (C1), Colt_81 (C1), Concombre_98 (C1), DTDevon_92 (C1), Daffodil_96 (C1), Dandelion_98 (C1), Darko_91 (C1), Delilah_91 (C1), Delylah_94 (C1), Demodog_98 (C1), Derek_91 (C1), Dietrick_83 (C1), DirtMonster_84 (C1), DrPhinkDaddy_90 (C1), Drazdys_91 (C1), ET08_80 (C1), EasyJones_94 (C1), EggyFarm_99 (C1), EmToTheThree_94 (C1), EmmaElysia_90 (C1), Erdmann_92 (C1), ErnieJ_87 (C1), Essence_88 (C1), Ewok_92 (C1), Flabslab_86 (C1), Fludd_91 (C1), FoxtrotP1_91 (C1), FrayBell_97 (C1), FudgeTart_91 (C1), Gabriel_93 (C1), Gamgam_91 (C1), Ghost_90 (C1), Gizmo_95 (C1), GlutenPhree_92 (C1), Grasshills_98 (C1), Grungle_78 (C1), Guwapp_90 (C1), Halldule_84 (C1), HyRo_83 (C1), I3_97 (C1), IkeLoa_85 (C1), InigoMontoya_92 (C1), InterFolia_100 (C1), Iota_85 (C1), Issimir_90 (C1), Izajani_91 (C1), JPickles_89 (C1), Janiyra_93 (C1), JayJay_97 (C1), Jaygup_91 (C1), Jedediah_94 (C1), Jemmno_91 (C1), Jessibeth14_90 (C1), Jezreel_91 (C1), JigglyPuff_97 (C1), JulietS_84 (C1), JustHall_87 (C1), Kamryn_91 (C1), Kboogie_94 (C1), Khaleesi_90 (C1), Koguma_87 (C1), LRRHood_85 (C1), Latch_91 (C1), Lee7_89 (C1), Lethe_90 (C1), LifeSavor_90 (C1), LinStu_91 (C1), Littleton_91 (C1), Loanshark_91 (C1), LolaVinca_93 (C1), LordLeafolot_97 (C1), Lukilu_82 (C1), Maby2021_91 (C1), Mangeria_91 (C1), Matsumoto_90 (C1), Maturis_89 (C1), McGee_92 (C1), McWolfish_89 (C1), Megamind_90 (C1), Melpomini_85 (C1), MikeLiesIn_92 (C1), Mikro_89 (C1), MoMoMixon_92 (C1), Momo_90 (C1), Morizzled23_91 (C1), Naija_90 (C1), Napoleon13_87 (C1), Nappy_93 (C1), Naval22_99 (C1), NedWong_92 (C1), Ngannou_87 (C1), Nidhogg_92 (C1), NoodleTree_99 (C1), Norm_92 (C1), NuevoMundo_97 (C1), OrediggerDelux_89 (C1), ParkTD_92 (C1), Patter_91 (C1), Phlegm_93 (C1), Phox_88 (C1), Phusco_91 (C1), Pier_95 (C1), Pinkcreek_82 (C1), Pio_95 (C1), Pivoine_90 (C1), Pleione_94 (C1), Primadonna_85 (C1), PurduePete_91 (C1), QBert_85 (C1), Quasimodo_91 (C1), Rabinovich_88 (C1), Rahel_90 (C1), Rizal_89 (C1), RoMag_86 (C1), Rocha_90 (C1), Ronan_84 (C1), Roots515_90 (C1), SVoro_89 (C1), Salacia_95 (C1), Sauce_91 (C1), ScottMcG_88

(C1), Sebata_92 (C1), Shaqnato_83 (C1), Shelob_93 (C1), ShiaLabeouf_91 (C1), Shifa_80 (C1), Shnickers_91 (C1), Shrimp_91 (C1), SilverDipper_92 (C1), SmallFry_91 (C1), Spec_86 (C1), Specks_97 (C1), Spud_91 (C1), SrishMeg2525_90 (C1), StephanieG_90 (C1), StubbySaigey_93 (C1), Stubby_84 (C1), Substance289_88 (C1), Tainan_96 (C1), Teardrop_91 (C1), TinyTim_91 (C1), Tonenili_105 (C1), Tortoise16_89 (C1), Trinitium_87 (C1), Turret_86 (C1), Tyke_93 (C1), ValleyTerrace_91 (C1), Wally_90 (C1), Willis_92 (C1), Yassified_87 (C1), YemiJoy2021_92 (C1), YoungMoneyMata_91 (C1), Yucca_91 (C1), Zalkecks_92 (C1), Zeenon_93 (C1), ZygoTaiga_90 (C1),

Start 6:

- Found in 199 of 204 (97.5%) of genes in pham
- Manual Annotations of this start: 1 of 184
- Called 2.0% of time when present
- Phage (with cluster) where this start called: Dessert_89 (C1), Labradorite_91 (C1), Pupusa_96 (C1), Sprinklers_86 (C1),

Summary by clusters:

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

Info for manual annotations of cluster C1:

- Start number 4 was manually annotated 180 times for cluster C1.
- Start number 6 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:

- Start number 3 was manually annotated 3 times for cluster C2.

Gene Information:

Gene: Ablatia_89 Start: 37449, Stop: 37808, Start Num: 4

Candidate Starts for Ablatia_89:

(Start: 4 @37449 has 180 MA's), (Start: 6 @37470 has 1 MA's), (9, 37497), (13, 37587), (14, 37593), (15, 37599), (16, 37608), (23, 37704),

Gene: Ading_91 Start: 38717, Stop: 39076, Start Num: 4

Candidate Starts for Ading_91:

(Start: 4 @38717 has 180 MA's), (Start: 6 @38738 has 1 MA's), (9, 38765), (13, 38855), (14, 38861), (15, 38867), (16, 38876), (23, 38972),

Gene: Adlitam_91 Start: 38734, Stop: 39093, Start Num: 4

Candidate Starts for Adlitam_91:

(Start: 4 @38734 has 180 MA's), (Start: 6 @38755 has 1 MA's), (9, 38782), (13, 38872), (14, 38878), (15, 38884), (16, 38893), (23, 38989),

Gene: Alice_84 Start: 36597, Stop: 36956, Start Num: 4

Candidate Starts for Alice_84:

(Start: 4 @36597 has 180 MA's), (Start: 6 @36618 has 1 MA's), (9, 36645), (13, 36735), (14, 36741), (15, 36747), (16, 36756), (23, 36852),

Gene: Amataga_91 Start: 37979, Stop: 38338, Start Num: 4

Candidate Starts for Amataga_91:

(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123), (15, 38129), (16, 38138), (23, 38234),

Gene: ArcherS7_90 Start: 38297, Stop: 38656, Start Num: 4

Candidate Starts for ArcherS7_90:

(Start: 4 @38297 has 180 MA's), (Start: 6 @38318 has 1 MA's), (9, 38345), (13, 38435), (14, 38441), (15, 38447), (16, 38456), (23, 38552),

Gene: Asterius_94 Start: 38282, Stop: 38641, Start Num: 4

Candidate Starts for Asterius_94:

(Start: 4 @38282 has 180 MA's), (Start: 6 @38303 has 1 MA's), (9, 38330), (13, 38420), (14, 38426), (15, 38432), (16, 38441), (23, 38537),

Gene: Astraea_89 Start: 38158, Stop: 38517, Start Num: 4

Candidate Starts for Astraea_89:

(Start: 4 @38158 has 180 MA's), (Start: 6 @38179 has 1 MA's), (9, 38206), (13, 38296), (14, 38302), (15, 38308), (16, 38317), (23, 38413),

Gene: Atlantean_90 Start: 37979, Stop: 38338, Start Num: 4

Candidate Starts for Atlantean_90:

(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123), (15, 38129), (16, 38138), (23, 38234),

Gene: Audrick_93 Start: 37958, Stop: 38317, Start Num: 4

Candidate Starts for Audrick_93:

(Start: 4 @37958 has 180 MA's), (Start: 6 @37979 has 1 MA's), (9, 38006), (13, 38096), (14, 38102), (15, 38108), (16, 38117), (23, 38213),

Gene: Ava3_92 Start: 38655, Stop: 39014, Start Num: 4

Candidate Starts for Ava3_92:

(Start: 4 @38655 has 180 MA's), (Start: 6 @38676 has 1 MA's), (9, 38703), (13, 38793), (14, 38799), (15, 38805), (16, 38814), (23, 38910),

Gene: Babyland_91 Start: 37418, Stop: 37777, Start Num: 4

Candidate Starts for Babyland_91:

(Start: 4 @37418 has 180 MA's), (Start: 6 @37439 has 1 MA's), (9, 37466), (13, 37556), (14, 37562), (15, 37568), (16, 37577), (23, 37673),

Gene: BackyardAgain_88 Start: 37476, Stop: 37835, Start Num: 4

Candidate Starts for BackyardAgain_88:

(Start: 4 @37476 has 180 MA's), (Start: 6 @37497 has 1 MA's), (9, 37524), (13, 37614), (14, 37620), (15, 37626), (16, 37635), (23, 37731),

Gene: BadAgartude_88 Start: 39038, Stop: 39397, Start Num: 4

Candidate Starts for BadAgartude_88:

(Start: 4 @39038 has 180 MA's), (Start: 6 @39059 has 1 MA's), (9, 39086), (13, 39176), (14, 39182), (15, 39188), (16, 39197), (23, 39293),

Gene: BananaFence_90 Start: 38520, Stop: 38879, Start Num: 4

Candidate Starts for BananaFence_90:

(Start: 4 @38520 has 180 MA's), (Start: 6 @38541 has 1 MA's), (9, 38568), (13, 38658), (14, 38664), (15, 38670), (16, 38679), (23, 38775),

Gene: Bangla1971_92 Start: 38427, Stop: 38786, Start Num: 4
Candidate Starts for Bangla1971_92:
(Start: 4 @38427 has 180 MA's), (Start: 6 @38448 has 1 MA's), (9, 38475), (13, 38565), (14, 38571),
(15, 38577), (16, 38586), (23, 38682),

Gene: Basquiat_87 Start: 36973, Stop: 37332, Start Num: 4
Candidate Starts for Basquiat_87:
(Start: 4 @36973 has 180 MA's), (Start: 6 @36994 has 1 MA's), (9, 37021), (13, 37111), (14, 37117),
(15, 37123), (16, 37132), (23, 37228),

Gene: BeanWater_83 Start: 38371, Stop: 38730, Start Num: 4
Candidate Starts for BeanWater_83:
(Start: 4 @38371 has 180 MA's), (Start: 6 @38392 has 1 MA's), (9, 38419), (13, 38509), (14, 38515),
(15, 38521), (16, 38530), (23, 38626),

Gene: Belieber_85 Start: 37331, Stop: 37690, Start Num: 4
Candidate Starts for Belieber_85:
(Start: 4 @37331 has 180 MA's), (Start: 6 @37352 has 1 MA's), (9, 37379), (13, 37469), (14, 37475),
(15, 37481), (16, 37490), (23, 37586),

Gene: BigCity_99 Start: 41031, Stop: 41390, Start Num: 4
Candidate Starts for BigCity_99:
(Start: 4 @41031 has 180 MA's), (Start: 6 @41052 has 1 MA's), (9, 41079), (13, 41169), (14, 41175),
(15, 41181), (16, 41190), (23, 41286),

Gene: Bigswole_96 Start: 41379, Stop: 41738, Start Num: 4
Candidate Starts for Bigswole_96:
(Start: 4 @41379 has 180 MA's), (Start: 6 @41400 has 1 MA's), (9, 41427), (13, 41517), (14, 41523),
(15, 41529), (16, 41538), (23, 41634),

Gene: Bipolarisk_90 Start: 38685, Stop: 39044, Start Num: 4
Candidate Starts for Bipolarisk_90:
(Start: 4 @38685 has 180 MA's), (Start: 6 @38706 has 1 MA's), (9, 38733), (13, 38823), (14, 38829),
(15, 38835), (16, 38844), (23, 38940),

Gene: Blackbrain_86 Start: 36790, Stop: 37149, Start Num: 4
Candidate Starts for Blackbrain_86:
(Start: 4 @36790 has 180 MA's), (Start: 6 @36811 has 1 MA's), (9, 36838), (13, 36928), (14, 36934),
(15, 36940), (16, 36949), (23, 37045),

Gene: Blubba_80 Start: 36571, Stop: 36930, Start Num: 4
Candidate Starts for Blubba_80:
(Start: 4 @36571 has 180 MA's), (Start: 6 @36592 has 1 MA's), (9, 36619), (13, 36709), (14, 36715),
(15, 36721), (16, 36730), (23, 36826),

Gene: Bonray_91 Start: 39082, Stop: 39441, Start Num: 4
Candidate Starts for Bonray_91:
(Start: 4 @39082 has 180 MA's), (Start: 6 @39103 has 1 MA's), (9, 39130), (13, 39220), (14, 39226),
(15, 39232), (16, 39241), (23, 39337),

Gene: Bread_91 Start: 38577, Stop: 38936, Start Num: 4
Candidate Starts for Bread_91:

(Start: 4 @38577 has 180 MA's), (Start: 6 @38598 has 1 MA's), (9, 38625), (13, 38715), (14, 38721), (15, 38727), (16, 38736), (23, 38832),

Gene: Breeniome_91 Start: 37800, Stop: 38159, Start Num: 4

Candidate Starts for Breeniome_91:

(Start: 4 @37800 has 180 MA's), (Start: 6 @37821 has 1 MA's), (9, 37848), (13, 37938), (14, 37944), (15, 37950), (16, 37959), (23, 38055),

Gene: Burrough_91 Start: 39234, Stop: 39593, Start Num: 4

Candidate Starts for Burrough_91:

(Start: 4 @39234 has 180 MA's), (Start: 6 @39255 has 1 MA's), (9, 39282), (13, 39372), (14, 39378), (15, 39384), (16, 39393), (23, 39489),

Gene: Bxz1_90 Start: 40285, Stop: 40644, Start Num: 4

Candidate Starts for Bxz1_90:

(Start: 4 @40285 has 180 MA's), (Start: 6 @40306 has 1 MA's), (9, 40333), (13, 40423), (14, 40429), (15, 40435), (16, 40444), (23, 40540),

Gene: Cactojaque_86 Start: 36897, Stop: 37256, Start Num: 4

Candidate Starts for Cactojaque_86:

(Start: 4 @36897 has 180 MA's), (Start: 6 @36918 has 1 MA's), (9, 36945), (13, 37035), (14, 37041), (15, 37047), (16, 37056), (23, 37152),

Gene: Cali_86 Start: 38811, Stop: 39170, Start Num: 4

Candidate Starts for Cali_86:

(Start: 4 @38811 has 180 MA's), (Start: 6 @38832 has 1 MA's), (9, 38859), (13, 38949), (14, 38955), (15, 38961), (16, 38970), (23, 39066),

Gene: Cane17_80 Start: 36644, Stop: 37003, Start Num: 4

Candidate Starts for Cane17_80:

(Start: 4 @36644 has 180 MA's), (Start: 6 @36665 has 1 MA's), (9, 36692), (13, 36782), (14, 36788), (15, 36794), (16, 36803), (23, 36899),

Gene: Capablanca_93 Start: 39104, Stop: 39463, Start Num: 4

Candidate Starts for Capablanca_93:

(Start: 4 @39104 has 180 MA's), (Start: 6 @39125 has 1 MA's), (9, 39152), (13, 39242), (14, 39248), (15, 39254), (16, 39263), (23, 39359),

Gene: Caravan_86 Start: 38608, Stop: 38967, Start Num: 4

Candidate Starts for Caravan_86:

(Start: 4 @38608 has 180 MA's), (Start: 6 @38629 has 1 MA's), (9, 38656), (13, 38746), (14, 38752), (15, 38758), (16, 38767), (23, 38863),

Gene: Catera_89 Start: 37062, Stop: 37421, Start Num: 4

Candidate Starts for Catera_89:

(Start: 4 @37062 has 180 MA's), (Start: 6 @37083 has 1 MA's), (9, 37110), (13, 37200), (14, 37206), (15, 37212), (16, 37221), (23, 37317),

Gene: Chargie21_87 Start: 36973, Stop: 37332, Start Num: 4

Candidate Starts for Chargie21_87:

(Start: 4 @36973 has 180 MA's), (Start: 6 @36994 has 1 MA's), (9, 37021), (13, 37111), (14, 37117), (15, 37123), (16, 37132), (23, 37228),

Gene: CharlieB_86 Start: 36809, Stop: 37168, Start Num: 4

Candidate Starts for CharlieB_86:

(Start: 4 @36809 has 180 MA's), (Start: 6 @36830 has 1 MA's), (9, 36857), (13, 36947), (14, 36953), (15, 36959), (16, 36968), (23, 37064),

Gene: ChaylaJr_86 Start: 36688, Stop: 37047, Start Num: 4

Candidate Starts for ChaylaJr_86:

(Start: 4 @36688 has 180 MA's), (Start: 6 @36709 has 1 MA's), (9, 36736), (13, 36826), (14, 36832), (15, 36838), (16, 36847), (23, 36943),

Gene: ChickenPhender_87 Start: 37021, Stop: 37380, Start Num: 4

Candidate Starts for ChickenPhender_87:

(Start: 4 @37021 has 180 MA's), (Start: 6 @37042 has 1 MA's), (9, 37069), (13, 37159), (14, 37165), (15, 37171), (16, 37180), (23, 37276),

Gene: Chomp_90 Start: 39267, Stop: 39626, Start Num: 4

Candidate Starts for Chomp_90:

(Start: 4 @39267 has 180 MA's), (Start: 6 @39288 has 1 MA's), (9, 39315), (13, 39405), (14, 39411), (15, 39417), (16, 39426), (23, 39522),

Gene: CindyLou_92 Start: 39308, Stop: 39667, Start Num: 4

Candidate Starts for CindyLou_92:

(Start: 4 @39308 has 180 MA's), (Start: 6 @39329 has 1 MA's), (9, 39356), (13, 39446), (14, 39452), (15, 39458), (16, 39467), (23, 39563),

Gene: Colt_81 Start: 37240, Stop: 37599, Start Num: 4

Candidate Starts for Colt_81:

(Start: 4 @37240 has 180 MA's), (Start: 6 @37261 has 1 MA's), (9, 37288), (13, 37378), (14, 37384), (15, 37390), (16, 37399), (23, 37495),

Gene: Concombres_98 Start: 41220, Stop: 41579, Start Num: 4

Candidate Starts for Concombres_98:

(Start: 4 @41220 has 180 MA's), (Start: 6 @41241 has 1 MA's), (9, 41268), (13, 41358), (14, 41364), (15, 41370), (16, 41379), (23, 41475),

Gene: DTDevon_92 Start: 39140, Stop: 39499, Start Num: 4

Candidate Starts for DTDevon_92:

(Start: 4 @39140 has 180 MA's), (Start: 6 @39161 has 1 MA's), (9, 39188), (13, 39278), (14, 39284), (15, 39290), (16, 39299), (23, 39395),

Gene: Daffodil_96 Start: 38973, Stop: 39332, Start Num: 4

Candidate Starts for Daffodil_96:

(Start: 4 @38973 has 180 MA's), (Start: 6 @38994 has 1 MA's), (9, 39021), (13, 39111), (14, 39117), (15, 39123), (16, 39132), (23, 39228),

Gene: Dandelion_98 Start: 41670, Stop: 42029, Start Num: 4

Candidate Starts for Dandelion_98:

(Start: 4 @41670 has 180 MA's), (Start: 6 @41691 has 1 MA's), (9, 41718), (13, 41808), (14, 41814), (15, 41820), (16, 41829), (23, 41925),

Gene: Darko_91 Start: 38908, Stop: 39267, Start Num: 4

Candidate Starts for Darko_91:

(Start: 4 @38908 has 180 MA's), (Start: 6 @38929 has 1 MA's), (9, 38956), (13, 39046), (14, 39052), (15, 39058), (16, 39067), (23, 39163),

Gene: Delilah_91 Start: 38974, Stop: 39333, Start Num: 4

Candidate Starts for Delilah_91:

(Start: 4 @38974 has 180 MA's), (Start: 6 @38995 has 1 MA's), (9, 39022), (13, 39112), (14, 39118), (15, 39124), (16, 39133), (23, 39229),

Gene: Delylah_94 Start: 38767, Stop: 39126, Start Num: 4

Candidate Starts for Delylah_94:

(Start: 4 @38767 has 180 MA's), (Start: 6 @38788 has 1 MA's), (9, 38815), (13, 38905), (14, 38911), (15, 38917), (16, 38926), (23, 39022),

Gene: Demodog_98 Start: 41220, Stop: 41579, Start Num: 4

Candidate Starts for Demodog_98:

(Start: 4 @41220 has 180 MA's), (Start: 6 @41241 has 1 MA's), (9, 41268), (13, 41358), (14, 41364), (15, 41370), (16, 41379), (23, 41475),

Gene: Derek_91 Start: 39069, Stop: 39428, Start Num: 4

Candidate Starts for Derek_91:

(Start: 4 @39069 has 180 MA's), (Start: 6 @39090 has 1 MA's), (9, 39117), (13, 39207), (14, 39213), (15, 39219), (16, 39228), (23, 39324),

Gene: Dessert_89 Start: 38000, Stop: 38338, Start Num: 6

Candidate Starts for Dessert_89:

(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123), (15, 38129), (16, 38138), (23, 38234),

Gene: Dietrick_83 Start: 36724, Stop: 37083, Start Num: 4

Candidate Starts for Dietrick_83:

(Start: 4 @36724 has 180 MA's), (Start: 6 @36745 has 1 MA's), (9, 36772), (13, 36862), (14, 36868), (15, 36874), (16, 36883), (23, 36979),

Gene: DirtMonster_84 Start: 37566, Stop: 37925, Start Num: 4

Candidate Starts for DirtMonster_84:

(Start: 4 @37566 has 180 MA's), (Start: 6 @37587 has 1 MA's), (9, 37614), (13, 37704), (14, 37710), (15, 37716), (16, 37725), (23, 37821),

Gene: DrPhinkDaddy_90 Start: 39029, Stop: 39388, Start Num: 4

Candidate Starts for DrPhinkDaddy_90:

(Start: 4 @39029 has 180 MA's), (Start: 6 @39050 has 1 MA's), (9, 39077), (13, 39167), (14, 39173), (15, 39179), (16, 39188), (23, 39284),

Gene: Drazdys_91 Start: 38771, Stop: 39130, Start Num: 4

Candidate Starts for Drazdys_91:

(Start: 4 @38771 has 180 MA's), (Start: 6 @38792 has 1 MA's), (9, 38819), (13, 38909), (14, 38915), (15, 38921), (16, 38930), (23, 39026),

Gene: ET08_80 Start: 37745, Stop: 38104, Start Num: 4

Candidate Starts for ET08_80:

(Start: 4 @37745 has 180 MA's), (Start: 6 @37766 has 1 MA's), (9, 37793), (13, 37883), (14, 37889), (15, 37895), (16, 37904), (23, 38000),

Gene: EasyJones_94 Start: 38080, Stop: 38439, Start Num: 4
Candidate Starts for EasyJones_94:
(Start: 4 @38080 has 180 MA's), (Start: 6 @38101 has 1 MA's), (9, 38128), (13, 38218), (14, 38224),
(15, 38230), (16, 38239), (23, 38335),

Gene: EggyFarm_99 Start: 41031, Stop: 41390, Start Num: 4
Candidate Starts for EggyFarm_99:
(Start: 4 @41031 has 180 MA's), (Start: 6 @41052 has 1 MA's), (9, 41079), (13, 41169), (14, 41175),
(15, 41181), (16, 41190), (23, 41286),

Gene: EmToTheThree_94 Start: 40425, Stop: 40784, Start Num: 4
Candidate Starts for EmToTheThree_94:
(Start: 4 @40425 has 180 MA's), (Start: 6 @40446 has 1 MA's), (9, 40473), (13, 40563), (14, 40569),
(15, 40575), (16, 40584), (23, 40680),

Gene: EmmaElysia_90 Start: 37546, Stop: 37905, Start Num: 4
Candidate Starts for EmmaElysia_90:
(Start: 4 @37546 has 180 MA's), (Start: 6 @37567 has 1 MA's), (9, 37594), (13, 37684), (14, 37690),
(15, 37696), (16, 37705), (23, 37801),

Gene: Erdmann_92 Start: 38974, Stop: 39333, Start Num: 4
Candidate Starts for Erdmann_92:
(Start: 4 @38974 has 180 MA's), (Start: 6 @38995 has 1 MA's), (9, 39022), (13, 39112), (14, 39118),
(15, 39124), (16, 39133), (23, 39229),

Gene: ErnieJ_87 Start: 37002, Stop: 37361, Start Num: 4
Candidate Starts for ErnieJ_87:
(Start: 4 @37002 has 180 MA's), (Start: 6 @37023 has 1 MA's), (9, 37050), (13, 37140), (14, 37146),
(15, 37152), (16, 37161), (23, 37257),

Gene: Essence_88 Start: 38533, Stop: 38892, Start Num: 4
Candidate Starts for Essence_88:
(Start: 4 @38533 has 180 MA's), (Start: 6 @38554 has 1 MA's), (9, 38581), (13, 38671), (14, 38677),
(15, 38683), (16, 38692), (23, 38788),

Gene: Ewok_92 Start: 38601, Stop: 38960, Start Num: 4
Candidate Starts for Ewok_92:
(Start: 4 @38601 has 180 MA's), (Start: 6 @38622 has 1 MA's), (9, 38649), (13, 38739), (14, 38745),
(15, 38751), (16, 38760), (23, 38856),

Gene: Flabslab_86 Start: 36758, Stop: 37117, Start Num: 4
Candidate Starts for Flabslab_86:
(Start: 4 @36758 has 180 MA's), (Start: 6 @36779 has 1 MA's), (9, 36806), (13, 36896), (14, 36902),
(15, 36908), (16, 36917), (23, 37013),

Gene: Fludd_91 Start: 37420, Stop: 37779, Start Num: 4
Candidate Starts for Fludd_91:
(Start: 4 @37420 has 180 MA's), (Start: 6 @37441 has 1 MA's), (9, 37468), (13, 37558), (14, 37564),
(15, 37570), (16, 37579), (23, 37675),

Gene: FoxtrotP1_91 Start: 39373, Stop: 39732, Start Num: 4
Candidate Starts for FoxtrotP1_91:

(Start: 4 @39373 has 180 MA's), (Start: 6 @39394 has 1 MA's), (9, 39421), (13, 39511), (14, 39517), (15, 39523), (16, 39532), (23, 39628),

Gene: FrayBell_97 Start: 40423, Stop: 40782, Start Num: 4

Candidate Starts for FrayBell_97:

(Start: 4 @40423 has 180 MA's), (Start: 6 @40444 has 1 MA's), (9, 40471), (13, 40561), (14, 40567), (15, 40573), (16, 40582), (23, 40678),

Gene: FudgeTart_91 Start: 38167, Stop: 38526, Start Num: 4

Candidate Starts for FudgeTart_91:

(Start: 4 @38167 has 180 MA's), (Start: 6 @38188 has 1 MA's), (9, 38215), (13, 38305), (14, 38311), (15, 38317), (16, 38326), (23, 38422),

Gene: Gabriel_93 Start: 38209, Stop: 38568, Start Num: 4

Candidate Starts for Gabriel_93:

(Start: 4 @38209 has 180 MA's), (Start: 6 @38230 has 1 MA's), (9, 38257), (13, 38347), (14, 38353), (15, 38359), (16, 38368), (23, 38464),

Gene: Gamgam_91 Start: 37979, Stop: 38338, Start Num: 4

Candidate Starts for Gamgam_91:

(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123), (15, 38129), (16, 38138), (23, 38234),

Gene: Ghost_90 Start: 37979, Stop: 38338, Start Num: 4

Candidate Starts for Ghost_90:

(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123), (15, 38129), (16, 38138), (23, 38234),

Gene: Gizmo_95 Start: 39350, Stop: 39709, Start Num: 4

Candidate Starts for Gizmo_95:

(Start: 4 @39350 has 180 MA's), (Start: 6 @39371 has 1 MA's), (9, 39398), (13, 39488), (14, 39494), (15, 39500), (16, 39509), (23, 39605),

Gene: GlutenPhree_92 Start: 37979, Stop: 38338, Start Num: 4

Candidate Starts for GlutenPhree_92:

(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123), (15, 38129), (16, 38138), (23, 38234),

Gene: Grasshills_98 Start: 41031, Stop: 41390, Start Num: 4

Candidate Starts for Grasshills_98:

(Start: 4 @41031 has 180 MA's), (Start: 6 @41052 has 1 MA's), (9, 41079), (13, 41169), (14, 41175), (15, 41181), (16, 41190), (23, 41286),

Gene: Greely_92 Start: 39740, Stop: 40090, Start Num: 3

Candidate Starts for Greely_92:

(1, 39611), (2, 39614), (Start: 3 @39740 has 3 MA's), (11, 39848), (12, 39893), (15, 39914), (16, 39923), (21, 39995),

Gene: Grungle_78 Start: 35361, Stop: 35720, Start Num: 4

Candidate Starts for Grungle_78:

(Start: 4 @35361 has 180 MA's), (Start: 6 @35382 has 1 MA's), (9, 35409), (13, 35499), (14, 35505), (15, 35511), (16, 35520), (23, 35616),

Gene: Guwapp_90 Start: 38074, Stop: 38433, Start Num: 4
Candidate Starts for Guwapp_90:
(Start: 4 @38074 has 180 MA's), (Start: 6 @38095 has 1 MA's), (9, 38122), (13, 38212), (14, 38218),
(15, 38224), (16, 38233), (23, 38329),

Gene: Halldule_84 Start: 36391, Stop: 36750, Start Num: 4
Candidate Starts for Halldule_84:
(Start: 4 @36391 has 180 MA's), (Start: 6 @36412 has 1 MA's), (9, 36439), (13, 36529), (14, 36535),
(15, 36541), (16, 36550), (23, 36646),

Gene: HyRo_83 Start: 37149, Stop: 37508, Start Num: 4
Candidate Starts for HyRo_83:
(Start: 4 @37149 has 180 MA's), (Start: 6 @37170 has 1 MA's), (9, 37197), (13, 37287), (14, 37293),
(15, 37299), (16, 37308), (23, 37404),

Gene: I3_97 Start: 38941, Stop: 39300, Start Num: 4
Candidate Starts for I3_97:
(Start: 4 @38941 has 180 MA's), (Start: 6 @38962 has 1 MA's), (9, 38989), (13, 39079), (14, 39085),
(15, 39091), (16, 39100), (23, 39196),

Gene: IkeLoa_85 Start: 37339, Stop: 37698, Start Num: 4
Candidate Starts for IkeLoa_85:
(Start: 4 @37339 has 180 MA's), (Start: 6 @37360 has 1 MA's), (9, 37387), (13, 37477), (14, 37483),
(15, 37489), (16, 37498), (23, 37594),

Gene: InigoMontoya_92 Start: 37940, Stop: 38299, Start Num: 4
Candidate Starts for InigoMontoya_92:
(Start: 4 @37940 has 180 MA's), (Start: 6 @37961 has 1 MA's), (9, 37988), (13, 38078), (14, 38084),
(15, 38090), (16, 38099), (23, 38195),

Gene: InterFolia_100 Start: 41361, Stop: 41720, Start Num: 4
Candidate Starts for InterFolia_100:
(Start: 4 @41361 has 180 MA's), (Start: 6 @41382 has 1 MA's), (9, 41409), (13, 41499), (14, 41505),
(15, 41511), (16, 41520), (23, 41616),

Gene: Iota_85 Start: 37720, Stop: 38079, Start Num: 4
Candidate Starts for Iota_85:
(Start: 4 @37720 has 180 MA's), (Start: 6 @37741 has 1 MA's), (9, 37768), (13, 37858), (14, 37864),
(15, 37870), (16, 37879), (23, 37975),

Gene: Issimir_90 Start: 38917, Stop: 39276, Start Num: 4
Candidate Starts for Issimir_90:
(Start: 4 @38917 has 180 MA's), (Start: 6 @38938 has 1 MA's), (9, 38965), (13, 39055), (14, 39061),
(15, 39067), (16, 39076), (23, 39172),

Gene: Izajani_91 Start: 38990, Stop: 39349, Start Num: 4
Candidate Starts for Izajani_91:
(Start: 4 @38990 has 180 MA's), (Start: 6 @39011 has 1 MA's), (9, 39038), (13, 39128), (14, 39134),
(15, 39140), (16, 39149), (23, 39245),

Gene: JPickles_89 Start: 37210, Stop: 37569, Start Num: 4
Candidate Starts for JPickles_89:

(Start: 4 @37210 has 180 MA's), (Start: 6 @37231 has 1 MA's), (9, 37258), (13, 37348), (14, 37354), (15, 37360), (16, 37369), (23, 37465),

Gene: Janiyra_93 Start: 38250, Stop: 38609, Start Num: 4

Candidate Starts for Janiyra_93:

(Start: 4 @38250 has 180 MA's), (Start: 6 @38271 has 1 MA's), (9, 38298), (13, 38388), (14, 38394), (15, 38400), (16, 38409), (23, 38505),

Gene: JayJay_97 Start: 40278, Stop: 40637, Start Num: 4

Candidate Starts for JayJay_97:

(Start: 4 @40278 has 180 MA's), (Start: 6 @40299 has 1 MA's), (9, 40326), (13, 40416), (14, 40422), (15, 40428), (16, 40437), (23, 40533),

Gene: Jaygup_91 Start: 38735, Stop: 39094, Start Num: 4

Candidate Starts for Jaygup_91:

(Start: 4 @38735 has 180 MA's), (Start: 6 @38756 has 1 MA's), (9, 38783), (13, 38873), (14, 38879), (15, 38885), (16, 38894), (23, 38990),

Gene: Jedediah_94 Start: 39235, Stop: 39594, Start Num: 4

Candidate Starts for Jedediah_94:

(Start: 4 @39235 has 180 MA's), (Start: 6 @39256 has 1 MA's), (9, 39283), (13, 39373), (14, 39379), (15, 39385), (16, 39394), (23, 39490),

Gene: Jemmno_91 Start: 38685, Stop: 39044, Start Num: 4

Candidate Starts for Jemmno_91:

(Start: 4 @38685 has 180 MA's), (Start: 6 @38706 has 1 MA's), (9, 38733), (13, 38823), (14, 38829), (15, 38835), (16, 38844), (23, 38940),

Gene: Jessibeth14_90 Start: 38759, Stop: 39118, Start Num: 4

Candidate Starts for Jessibeth14_90:

(Start: 4 @38759 has 180 MA's), (Start: 6 @38780 has 1 MA's), (9, 38807), (13, 38897), (14, 38903), (15, 38909), (16, 38918), (23, 39014),

Gene: Jezreel_91 Start: 38673, Stop: 39032, Start Num: 4

Candidate Starts for Jezreel_91:

(Start: 4 @38673 has 180 MA's), (Start: 6 @38694 has 1 MA's), (9, 38721), (13, 38811), (14, 38817), (15, 38823), (16, 38832), (23, 38928),

Gene: JigglyPuff_97 Start: 40534, Stop: 40893, Start Num: 4

Candidate Starts for JigglyPuff_97:

(Start: 4 @40534 has 180 MA's), (Start: 6 @40555 has 1 MA's), (9, 40582), (13, 40672), (14, 40678), (15, 40684), (16, 40693), (23, 40789),

Gene: JulietS_84 Start: 36242, Stop: 36601, Start Num: 4

Candidate Starts for JulietS_84:

(Start: 4 @36242 has 180 MA's), (Start: 6 @36263 has 1 MA's), (9, 36290), (13, 36380), (14, 36386), (15, 36392), (16, 36401), (23, 36497),

Gene: JustHall_87 Start: 37888, Stop: 38247, Start Num: 4

Candidate Starts for JustHall_87:

(Start: 4 @37888 has 180 MA's), (Start: 6 @37909 has 1 MA's), (9, 37936), (13, 38026), (14, 38032), (15, 38038), (16, 38047), (23, 38143),

Gene: Kamryn_91 Start: 39498, Stop: 39857, Start Num: 4
Candidate Starts for Kamryn_91:
(Start: 4 @39498 has 180 MA's), (Start: 6 @39519 has 1 MA's), (9, 39546), (13, 39636), (14, 39642),
(15, 39648), (16, 39657), (23, 39753),

Gene: Kboogie_94 Start: 37532, Stop: 37891, Start Num: 4
Candidate Starts for Kboogie_94:
(Start: 4 @37532 has 180 MA's), (Start: 6 @37553 has 1 MA's), (9, 37580), (13, 37670), (14, 37676),
(15, 37682), (16, 37691), (23, 37787),

Gene: Khaleesi_90 Start: 38721, Stop: 39080, Start Num: 4
Candidate Starts for Khaleesi_90:
(Start: 4 @38721 has 180 MA's), (Start: 6 @38742 has 1 MA's), (9, 38769), (13, 38859), (14, 38865),
(15, 38871), (16, 38880), (23, 38976),

Gene: Koguma_87 Start: 36462, Stop: 36821, Start Num: 4
Candidate Starts for Koguma_87:
(Start: 4 @36462 has 180 MA's), (Start: 6 @36483 has 1 MA's), (9, 36510), (13, 36600), (14, 36606),
(15, 36612), (16, 36621), (23, 36717),

Gene: LRRHood_85 Start: 38281, Stop: 38640, Start Num: 4
Candidate Starts for LRRHood_85:
(Start: 4 @38281 has 180 MA's), (Start: 6 @38302 has 1 MA's), (9, 38329), (13, 38419), (14, 38425),
(15, 38431), (16, 38440), (23, 38536),

Gene: Labradorite_91 Start: 38079, Stop: 38417, Start Num: 6
Candidate Starts for Labradorite_91:
(Start: 4 @38058 has 180 MA's), (Start: 6 @38079 has 1 MA's), (9, 38106), (13, 38196), (14, 38202),
(15, 38208), (16, 38217), (23, 38313),

Gene: Latch_91 Start: 37979, Stop: 38338, Start Num: 4
Candidate Starts for Latch_91:
(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123),
(15, 38129), (16, 38138), (23, 38234),

Gene: Lee7_89 Start: 38584, Stop: 38943, Start Num: 4
Candidate Starts for Lee7_89:
(Start: 4 @38584 has 180 MA's), (Start: 6 @38605 has 1 MA's), (9, 38632), (13, 38722), (14, 38728),
(15, 38734), (16, 38743), (23, 38839),

Gene: Lethe_90 Start: 39169, Stop: 39528, Start Num: 4
Candidate Starts for Lethe_90:
(Start: 4 @39169 has 180 MA's), (Start: 6 @39190 has 1 MA's), (9, 39217), (13, 39307), (14, 39313),
(15, 39319), (16, 39328), (23, 39424),

Gene: LifeSavor_90 Start: 38500, Stop: 38859, Start Num: 4
Candidate Starts for LifeSavor_90:
(Start: 4 @38500 has 180 MA's), (Start: 6 @38521 has 1 MA's), (9, 38548), (13, 38638), (14, 38644),
(15, 38650), (16, 38659), (23, 38755),

Gene: LinStu_91 Start: 39345, Stop: 39704, Start Num: 4
Candidate Starts for LinStu_91:

(Start: 4 @39345 has 180 MA's), (Start: 6 @39366 has 1 MA's), (9, 39393), (13, 39483), (14, 39489), (15, 39495), (16, 39504), (23, 39600),

Gene: Littleton_91 Start: 37934, Stop: 38293, Start Num: 4

Candidate Starts for Littleton_91:

(Start: 4 @37934 has 180 MA's), (Start: 6 @37955 has 1 MA's), (9, 37982), (13, 38072), (14, 38078), (15, 38084), (16, 38093), (23, 38189),

Gene: Loanshark_91 Start: 38974, Stop: 39333, Start Num: 4

Candidate Starts for Loanshark_91:

(Start: 4 @38974 has 180 MA's), (Start: 6 @38995 has 1 MA's), (9, 39022), (13, 39112), (14, 39118), (15, 39124), (16, 39133), (23, 39229),

Gene: LolaVinca_93 Start: 40080, Stop: 40439, Start Num: 4

Candidate Starts for LolaVinca_93:

(Start: 4 @40080 has 180 MA's), (Start: 6 @40101 has 1 MA's), (9, 40128), (13, 40218), (14, 40224), (15, 40230), (16, 40239), (23, 40335),

Gene: LordLeafolot_97 Start: 41071, Stop: 41430, Start Num: 4

Candidate Starts for LordLeafolot_97:

(Start: 4 @41071 has 180 MA's), (Start: 6 @41092 has 1 MA's), (9, 41119), (13, 41209), (14, 41215), (15, 41221), (16, 41230), (23, 41326),

Gene: Lukilu_82 Start: 37814, Stop: 38173, Start Num: 4

Candidate Starts for Lukilu_82:

(Start: 4 @37814 has 180 MA's), (Start: 6 @37835 has 1 MA's), (9, 37862), (13, 37952), (14, 37958), (15, 37964), (16, 37973), (23, 38069),

Gene: Maby2021_91 Start: 38655, Stop: 39014, Start Num: 4

Candidate Starts for Maby2021_91:

(Start: 4 @38655 has 180 MA's), (Start: 6 @38676 has 1 MA's), (9, 38703), (13, 38793), (14, 38799), (15, 38805), (16, 38814), (23, 38910),

Gene: Mangeria_91 Start: 38936, Stop: 39295, Start Num: 4

Candidate Starts for Mangeria_91:

(Start: 4 @38936 has 180 MA's), (Start: 6 @38957 has 1 MA's), (9, 38984), (13, 39074), (14, 39080), (15, 39086), (16, 39095), (23, 39191),

Gene: Matsumoto_90 Start: 38699, Stop: 39058, Start Num: 4

Candidate Starts for Matsumoto_90:

(Start: 4 @38699 has 180 MA's), (Start: 6 @38720 has 1 MA's), (9, 38747), (13, 38837), (14, 38843), (15, 38849), (16, 38858), (23, 38954),

Gene: Maturis_89 Start: 39096, Stop: 39455, Start Num: 4

Candidate Starts for Maturis_89:

(Start: 4 @39096 has 180 MA's), (Start: 6 @39117 has 1 MA's), (9, 39144), (13, 39234), (14, 39240), (15, 39246), (16, 39255), (23, 39351),

Gene: McGee_92 Start: 37163, Stop: 37522, Start Num: 4

Candidate Starts for McGee_92:

(Start: 4 @37163 has 180 MA's), (Start: 6 @37184 has 1 MA's), (9, 37211), (13, 37301), (14, 37307), (15, 37313), (16, 37322), (23, 37418),

Gene: McWolfish_89 Start: 38381, Stop: 38740, Start Num: 4
Candidate Starts for McWolfish_89:
(Start: 4 @38381 has 180 MA's), (Start: 6 @38402 has 1 MA's), (9, 38429), (13, 38519), (14, 38525),
(15, 38531), (16, 38540), (23, 38636),

Gene: Megamind_90 Start: 38640, Stop: 38999, Start Num: 4
Candidate Starts for Megamind_90:
(Start: 4 @38640 has 180 MA's), (Start: 6 @38661 has 1 MA's), (9, 38688), (13, 38778), (14, 38784),
(15, 38790), (16, 38799), (23, 38895),

Gene: Melpomini_85 Start: 36165, Stop: 36524, Start Num: 4
Candidate Starts for Melpomini_85:
(Start: 4 @36165 has 180 MA's), (Start: 6 @36186 has 1 MA's), (9, 36213), (13, 36303), (14, 36309),
(15, 36315), (16, 36324), (23, 36420),

Gene: MikeLiesIn_92 Start: 38987, Stop: 39346, Start Num: 4
Candidate Starts for MikeLiesIn_92:
(Start: 4 @38987 has 180 MA's), (Start: 6 @39008 has 1 MA's), (9, 39035), (13, 39125), (14, 39131),
(15, 39137), (16, 39146), (23, 39242),

Gene: Mikro_89 Start: 39898, Stop: 40257, Start Num: 4
Candidate Starts for Mikro_89:
(Start: 4 @39898 has 180 MA's), (Start: 6 @39919 has 1 MA's), (9, 39946), (13, 40036), (14, 40042),
(15, 40048), (16, 40057), (23, 40153),

Gene: MoMoMixon_92 Start: 38712, Stop: 39071, Start Num: 4
Candidate Starts for MoMoMixon_92:
(Start: 4 @38712 has 180 MA's), (Start: 6 @38733 has 1 MA's), (9, 38760), (13, 38850), (14, 38856),
(15, 38862), (16, 38871), (23, 38967),

Gene: Momo_90 Start: 37979, Stop: 38338, Start Num: 4
Candidate Starts for Momo_90:
(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123),
(15, 38129), (16, 38138), (23, 38234),

Gene: Morizzled23_91 Start: 37685, Stop: 38044, Start Num: 4
Candidate Starts for Morizzled23_91:
(Start: 4 @37685 has 180 MA's), (Start: 6 @37706 has 1 MA's), (9, 37733), (13, 37823), (14, 37829),
(15, 37835), (16, 37844), (23, 37940),

Gene: Myrna_90 Start: 40510, Stop: 40863, Start Num: 3
Candidate Starts for Myrna_90:
(Start: 3 @40510 has 3 MA's), (5, 40543), (8, 40561), (11, 40618), (12, 40663), (16, 40693), (17,
40735), (22, 40783), (24, 40813),

Gene: Naija_90 Start: 37979, Stop: 38338, Start Num: 4
Candidate Starts for Naija_90:
(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123),
(15, 38129), (16, 38138), (23, 38234),

Gene: Napoleon13_87 Start: 36782, Stop: 37141, Start Num: 4
Candidate Starts for Napoleon13_87:

(Start: 4 @36782 has 180 MA's), (Start: 6 @36803 has 1 MA's), (9, 36830), (13, 36920), (14, 36926), (15, 36932), (16, 36941), (23, 37037),

Gene: Nappy_93 Start: 39538, Stop: 39897, Start Num: 4

Candidate Starts for Nappy_93:

(Start: 4 @39538 has 180 MA's), (Start: 6 @39559 has 1 MA's), (9, 39586), (13, 39676), (14, 39682), (15, 39688), (16, 39697), (23, 39793),

Gene: Naval22_99 Start: 40578, Stop: 40937, Start Num: 4

Candidate Starts for Naval22_99:

(Start: 4 @40578 has 180 MA's), (Start: 6 @40599 has 1 MA's), (9, 40626), (13, 40716), (14, 40722), (15, 40728), (16, 40737), (23, 40833),

Gene: NedWong_92 Start: 38974, Stop: 39333, Start Num: 4

Candidate Starts for NedWong_92:

(Start: 4 @38974 has 180 MA's), (Start: 6 @38995 has 1 MA's), (9, 39022), (13, 39112), (14, 39118), (15, 39124), (16, 39133), (23, 39229),

Gene: Ngannou_87 Start: 36961, Stop: 37320, Start Num: 4

Candidate Starts for Ngannou_87:

(Start: 4 @36961 has 180 MA's), (Start: 6 @36982 has 1 MA's), (9, 37009), (13, 37099), (14, 37105), (15, 37111), (16, 37120), (23, 37216),

Gene: Nidhogg_92 Start: 38828, Stop: 39187, Start Num: 4

Candidate Starts for Nidhogg_92:

(Start: 4 @38828 has 180 MA's), (Start: 6 @38849 has 1 MA's), (9, 38876), (13, 38966), (14, 38972), (15, 38978), (16, 38987), (23, 39083),

Gene: NoodleTree_99 Start: 40005, Stop: 40364, Start Num: 4

Candidate Starts for NoodleTree_99:

(Start: 4 @40005 has 180 MA's), (Start: 6 @40026 has 1 MA's), (9, 40053), (13, 40143), (14, 40149), (15, 40155), (16, 40164), (23, 40260),

Gene: Norm_92 Start: 38976, Stop: 39335, Start Num: 4

Candidate Starts for Norm_92:

(Start: 4 @38976 has 180 MA's), (Start: 6 @38997 has 1 MA's), (9, 39024), (13, 39114), (14, 39120), (15, 39126), (16, 39135), (23, 39231),

Gene: NuevoMundo_97 Start: 40935, Stop: 41294, Start Num: 4

Candidate Starts for NuevoMundo_97:

(Start: 4 @40935 has 180 MA's), (Start: 6 @40956 has 1 MA's), (9, 40983), (13, 41073), (14, 41079), (15, 41085), (16, 41094), (23, 41190),

Gene: OrediggerDelux_89 Start: 38973, Stop: 39332, Start Num: 4

Candidate Starts for OrediggerDelux_89:

(Start: 4 @38973 has 180 MA's), (Start: 6 @38994 has 1 MA's), (9, 39021), (13, 39111), (14, 39117), (15, 39123), (16, 39132), (23, 39228),

Gene: ParkTD_92 Start: 38970, Stop: 39329, Start Num: 4

Candidate Starts for ParkTD_92:

(Start: 4 @38970 has 180 MA's), (Start: 6 @38991 has 1 MA's), (9, 39018), (13, 39108), (14, 39114), (15, 39120), (16, 39129), (23, 39225),

Gene: Patter_91 Start: 37996, Stop: 38355, Start Num: 4

Candidate Starts for Patter_91:

(Start: 4 @37996 has 180 MA's), (Start: 6 @38017 has 1 MA's), (9, 38044), (13, 38134), (14, 38140), (15, 38146), (16, 38155), (23, 38251),

Gene: Phabba_95 Start: 39583, Stop: 39933, Start Num: 3

Candidate Starts for Phabba_95:

(2, 39457), (Start: 3 @39583 has 3 MA's), (10, 39670), (11, 39691), (15, 39757), (16, 39766), (21, 39838),

Gene: Phlegm_93 Start: 37979, Stop: 38338, Start Num: 4

Candidate Starts for Phlegm_93:

(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123), (15, 38129), (16, 38138), (23, 38234),

Gene: Phox_88 Start: 38843, Stop: 39202, Start Num: 4

Candidate Starts for Phox_88:

(Start: 4 @38843 has 180 MA's), (Start: 6 @38864 has 1 MA's), (9, 38891), (13, 38981), (14, 38987), (15, 38993), (16, 39002), (23, 39098),

Gene: Phusco_91 Start: 38744, Stop: 39103, Start Num: 4

Candidate Starts for Phusco_91:

(Start: 4 @38744 has 180 MA's), (Start: 6 @38765 has 1 MA's), (9, 38792), (13, 38882), (14, 38888), (15, 38894), (16, 38903), (23, 38999),

Gene: Pier_95 Start: 39975, Stop: 40334, Start Num: 4

Candidate Starts for Pier_95:

(Start: 4 @39975 has 180 MA's), (Start: 6 @39996 has 1 MA's), (9, 40023), (13, 40113), (14, 40119), (15, 40125), (16, 40134), (23, 40230),

Gene: Pinkcreek_82 Start: 35929, Stop: 36288, Start Num: 4

Candidate Starts for Pinkcreek_82:

(Start: 4 @35929 has 180 MA's), (Start: 6 @35950 has 1 MA's), (9, 35977), (13, 36067), (14, 36073), (15, 36079), (16, 36088), (23, 36184),

Gene: Pio_95 Start: 40707, Stop: 41066, Start Num: 4

Candidate Starts for Pio_95:

(Start: 4 @40707 has 180 MA's), (Start: 6 @40728 has 1 MA's), (9, 40755), (13, 40845), (14, 40851), (15, 40857), (16, 40866), (23, 40962),

Gene: Pivoine_90 Start: 37979, Stop: 38338, Start Num: 4

Candidate Starts for Pivoine_90:

(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123), (15, 38129), (16, 38138), (23, 38234),

Gene: Pleione_94 Start: 38973, Stop: 39332, Start Num: 4

Candidate Starts for Pleione_94:

(Start: 4 @38973 has 180 MA's), (Start: 6 @38994 has 1 MA's), (9, 39021), (13, 39111), (14, 39117), (15, 39123), (16, 39132), (23, 39228),

Gene: Primadonna_85 Start: 37865, Stop: 38224, Start Num: 4

Candidate Starts for Primadonna_85:

(Start: 4 @37865 has 180 MA's), (Start: 6 @37886 has 1 MA's), (9, 37913), (13, 38003), (14, 38009), (15, 38015), (16, 38024), (23, 38120),

Gene: Pupusa_96 Start: 40811, Stop: 41149, Start Num: 6

Candidate Starts for Pupusa_96:

(Start: 4 @40790 has 180 MA's), (Start: 6 @40811 has 1 MA's), (9, 40838), (13, 40928), (14, 40934), (15, 40940), (16, 40949), (23, 41045),

Gene: PurduePete_91 Start: 39018, Stop: 39377, Start Num: 4

Candidate Starts for PurduePete_91:

(Start: 4 @39018 has 180 MA's), (Start: 6 @39039 has 1 MA's), (9, 39066), (13, 39156), (14, 39162), (15, 39168), (16, 39177), (23, 39273),

Gene: QBert_85 Start: 38474, Stop: 38833, Start Num: 4

Candidate Starts for QBert_85:

(Start: 4 @38474 has 180 MA's), (Start: 6 @38495 has 1 MA's), (9, 38522), (13, 38612), (14, 38618), (15, 38624), (16, 38633), (23, 38729),

Gene: Quasimodo_91 Start: 38509, Stop: 38868, Start Num: 4

Candidate Starts for Quasimodo_91:

(Start: 4 @38509 has 180 MA's), (Start: 6 @38530 has 1 MA's), (9, 38557), (13, 38647), (14, 38653), (15, 38659), (16, 38668), (23, 38764),

Gene: Rabinovish_88 Start: 38816, Stop: 39175, Start Num: 4

Candidate Starts for Rabinovish_88:

(Start: 4 @38816 has 180 MA's), (Start: 6 @38837 has 1 MA's), (9, 38864), (13, 38954), (14, 38960), (15, 38966), (16, 38975), (23, 39071),

Gene: Rahel_90 Start: 38336, Stop: 38695, Start Num: 4

Candidate Starts for Rahel_90:

(Start: 4 @38336 has 180 MA's), (Start: 6 @38357 has 1 MA's), (9, 38384), (13, 38474), (14, 38480), (15, 38486), (16, 38495), (23, 38591),

Gene: Rizal_89 Start: 37891, Stop: 38250, Start Num: 4

Candidate Starts for Rizal_89:

(Start: 4 @37891 has 180 MA's), (Start: 6 @37912 has 1 MA's), (9, 37939), (13, 38029), (14, 38035), (15, 38041), (16, 38050), (23, 38146),

Gene: RoMag_86 Start: 38333, Stop: 38692, Start Num: 4

Candidate Starts for RoMag_86:

(Start: 4 @38333 has 180 MA's), (Start: 6 @38354 has 1 MA's), (9, 38381), (13, 38471), (14, 38477), (15, 38483), (16, 38492), (23, 38588),

Gene: Rocha_90 Start: 38416, Stop: 38775, Start Num: 4

Candidate Starts for Rocha_90:

(Start: 4 @38416 has 180 MA's), (Start: 6 @38437 has 1 MA's), (9, 38464), (13, 38554), (14, 38560), (15, 38566), (16, 38575), (23, 38671),

Gene: Ronan_84 Start: 35780, Stop: 36139, Start Num: 4

Candidate Starts for Ronan_84:

(Start: 4 @35780 has 180 MA's), (Start: 6 @35801 has 1 MA's), (9, 35828), (13, 35918), (14, 35924), (15, 35930), (16, 35939), (23, 36035),

Gene: Roots515_90 Start: 38396, Stop: 38755, Start Num: 4

Candidate Starts for Roots515_90:

(Start: 4 @38396 has 180 MA's), (Start: 6 @38417 has 1 MA's), (9, 38444), (13, 38534), (14, 38540), (15, 38546), (16, 38555), (23, 38651),

Gene: SVoro_89 Start: 38968, Stop: 39327, Start Num: 4

Candidate Starts for SVoro_89:

(Start: 4 @38968 has 180 MA's), (Start: 6 @38989 has 1 MA's), (9, 39016), (13, 39106), (14, 39112), (15, 39118), (16, 39127), (23, 39223),

Gene: Salacia_95 Start: 39088, Stop: 39447, Start Num: 4

Candidate Starts for Salacia_95:

(Start: 4 @39088 has 180 MA's), (Start: 6 @39109 has 1 MA's), (9, 39136), (13, 39226), (14, 39232), (15, 39238), (16, 39247), (23, 39343),

Gene: Sauce_91 Start: 37828, Stop: 38187, Start Num: 4

Candidate Starts for Sauce_91:

(Start: 4 @37828 has 180 MA's), (Start: 6 @37849 has 1 MA's), (9, 37876), (13, 37966), (14, 37972), (15, 37978), (16, 37987), (23, 38083),

Gene: ScoobyDoobyDoo_85 Start: 37526, Stop: 37870, Start Num: 3

Candidate Starts for ScoobyDoobyDoo_85:

(Start: 3 @37526 has 3 MA's), (7, 37574), (16, 37709), (18, 37754), (19, 37769),

Gene: ScottMcG_88 Start: 37960, Stop: 38319, Start Num: 4

Candidate Starts for ScottMcG_88:

(Start: 4 @37960 has 180 MA's), (Start: 6 @37981 has 1 MA's), (9, 38008), (13, 38098), (14, 38104), (15, 38110), (16, 38119), (23, 38215),

Gene: Sebata_92 Start: 39464, Stop: 39823, Start Num: 4

Candidate Starts for Sebata_92:

(Start: 4 @39464 has 180 MA's), (Start: 6 @39485 has 1 MA's), (9, 39512), (13, 39602), (14, 39608), (15, 39614), (16, 39623), (23, 39719),

Gene: Shaqnato_83 Start: 36703, Stop: 37062, Start Num: 4

Candidate Starts for Shaqnato_83:

(Start: 4 @36703 has 180 MA's), (Start: 6 @36724 has 1 MA's), (9, 36751), (13, 36841), (14, 36847), (15, 36853), (16, 36862), (23, 36958),

Gene: Shelob_93 Start: 39966, Stop: 40325, Start Num: 4

Candidate Starts for Shelob_93:

(Start: 4 @39966 has 180 MA's), (Start: 6 @39987 has 1 MA's), (9, 40014), (13, 40104), (14, 40110), (15, 40116), (16, 40125), (23, 40221),

Gene: ShiaLabeouf_91 Start: 39175, Stop: 39534, Start Num: 4

Candidate Starts for ShiaLabeouf_91:

(Start: 4 @39175 has 180 MA's), (Start: 6 @39196 has 1 MA's), (9, 39223), (13, 39313), (14, 39319), (15, 39325), (16, 39334), (23, 39430),

Gene: Shifa_80 Start: 36416, Stop: 36775, Start Num: 4

Candidate Starts for Shifa_80:

(Start: 4 @36416 has 180 MA's), (Start: 6 @36437 has 1 MA's), (9, 36464), (13, 36554), (14, 36560), (15, 36566), (16, 36575), (23, 36671),

Gene: Shnickers_91 Start: 38735, Stop: 39094, Start Num: 4
Candidate Starts for Shnickers_91:
(Start: 4 @38735 has 180 MA's), (Start: 6 @38756 has 1 MA's), (9, 38783), (13, 38873), (14, 38879),
(15, 38885), (16, 38894), (23, 38990),

Gene: Shrimp_91 Start: 38978, Stop: 39337, Start Num: 4
Candidate Starts for Shrimp_91:
(Start: 4 @38978 has 180 MA's), (Start: 6 @38999 has 1 MA's), (9, 39026), (13, 39116), (14, 39122),
(15, 39128), (16, 39137), (23, 39233),

Gene: SilverDipper_92 Start: 37979, Stop: 38338, Start Num: 4
Candidate Starts for SilverDipper_92:
(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123),
(15, 38129), (16, 38138), (23, 38234),

Gene: SmallFry_91 Start: 37930, Stop: 38289, Start Num: 4
Candidate Starts for SmallFry_91:
(Start: 4 @37930 has 180 MA's), (Start: 6 @37951 has 1 MA's), (9, 37978), (13, 38068), (14, 38074),
(15, 38080), (16, 38089), (23, 38185),

Gene: Spec_86 Start: 38500, Stop: 38859, Start Num: 4
Candidate Starts for Spec_86:
(Start: 4 @38500 has 180 MA's), (Start: 6 @38521 has 1 MA's), (9, 38548), (13, 38638), (14, 38644),
(15, 38650), (16, 38659), (23, 38755),

Gene: Specks_97 Start: 40714, Stop: 41073, Start Num: 4
Candidate Starts for Specks_97:
(Start: 4 @40714 has 180 MA's), (Start: 6 @40735 has 1 MA's), (9, 40762), (13, 40852), (14, 40858),
(15, 40864), (16, 40873), (23, 40969),

Gene: Sprinklers_86 Start: 37221, Stop: 37559, Start Num: 6
Candidate Starts for Sprinklers_86:
(Start: 4 @37200 has 180 MA's), (Start: 6 @37221 has 1 MA's), (9, 37248), (13, 37338), (14, 37344),
(15, 37350), (16, 37359), (23, 37455),

Gene: Spud_91 Start: 38921, Stop: 39280, Start Num: 4
Candidate Starts for Spud_91:
(Start: 4 @38921 has 180 MA's), (Start: 6 @38942 has 1 MA's), (9, 38969), (13, 39059), (14, 39065),
(15, 39071), (16, 39080), (23, 39176),

Gene: SrishMeg2525_90 Start: 38310, Stop: 38669, Start Num: 4
Candidate Starts for SrishMeg2525_90:
(Start: 4 @38310 has 180 MA's), (Start: 6 @38331 has 1 MA's), (9, 38358), (13, 38448), (14, 38454),
(15, 38460), (16, 38469), (23, 38565),

Gene: StephanieG_90 Start: 39790, Stop: 40149, Start Num: 4
Candidate Starts for StephanieG_90:
(Start: 4 @39790 has 180 MA's), (Start: 6 @39811 has 1 MA's), (9, 39838), (13, 39928), (14, 39934),
(15, 39940), (16, 39949), (23, 40045),

Gene: Stubby_84 Start: 37007, Stop: 37366, Start Num: 4
Candidate Starts for Stubby_84:

(Start: 4 @37007 has 180 MA's), (Start: 6 @37028 has 1 MA's), (9, 37055), (13, 37145), (14, 37151), (15, 37157), (16, 37166), (23, 37262),

Gene: StubbySaigey_93 Start: 37267, Stop: 37626, Start Num: 4

Candidate Starts for StubbySaigey_93:

(Start: 4 @37267 has 180 MA's), (Start: 6 @37288 has 1 MA's), (9, 37315), (13, 37405), (14, 37411), (15, 37417), (16, 37426), (23, 37522),

Gene: Substance289_88 Start: 38253, Stop: 38612, Start Num: 4

Candidate Starts for Substance289_88:

(Start: 4 @38253 has 180 MA's), (Start: 6 @38274 has 1 MA's), (9, 38301), (13, 38391), (14, 38397), (15, 38403), (16, 38412), (23, 38508),

Gene: Tainan_96 Start: 40364, Stop: 40723, Start Num: 4

Candidate Starts for Tainan_96:

(Start: 4 @40364 has 180 MA's), (Start: 6 @40385 has 1 MA's), (9, 40412), (13, 40502), (14, 40508), (15, 40514), (16, 40523), (23, 40619),

Gene: Teardrop_91 Start: 38038, Stop: 38397, Start Num: 4

Candidate Starts for Teardrop_91:

(Start: 4 @38038 has 180 MA's), (Start: 6 @38059 has 1 MA's), (9, 38086), (13, 38176), (14, 38182), (15, 38188), (16, 38197), (23, 38293),

Gene: TinyTim_91 Start: 38974, Stop: 39333, Start Num: 4

Candidate Starts for TinyTim_91:

(Start: 4 @38974 has 180 MA's), (Start: 6 @38995 has 1 MA's), (9, 39022), (13, 39112), (14, 39118), (15, 39124), (16, 39133), (23, 39229),

Gene: Tonenili_105 Start: 42981, Stop: 43340, Start Num: 4

Candidate Starts for Tonenili_105:

(Start: 4 @42981 has 180 MA's), (9, 43029), (13, 43119), (16, 43140), (20, 43200), (23, 43236), (25, 43281),

Gene: Tortoise16_89 Start: 38832, Stop: 39191, Start Num: 4

Candidate Starts for Tortoise16_89:

(Start: 4 @38832 has 180 MA's), (Start: 6 @38853 has 1 MA's), (9, 38880), (13, 38970), (14, 38976), (15, 38982), (16, 38991), (23, 39087),

Gene: Trinitium_87 Start: 37006, Stop: 37365, Start Num: 4

Candidate Starts for Trinitium_87:

(Start: 4 @37006 has 180 MA's), (Start: 6 @37027 has 1 MA's), (9, 37054), (13, 37144), (14, 37150), (15, 37156), (16, 37165), (23, 37261),

Gene: Turret_86 Start: 36672, Stop: 37031, Start Num: 4

Candidate Starts for Turret_86:

(Start: 4 @36672 has 180 MA's), (Start: 6 @36693 has 1 MA's), (9, 36720), (13, 36810), (14, 36816), (15, 36822), (16, 36831), (23, 36927),

Gene: Tyke_93 Start: 40540, Stop: 40899, Start Num: 4

Candidate Starts for Tyke_93:

(Start: 4 @40540 has 180 MA's), (Start: 6 @40561 has 1 MA's), (9, 40588), (13, 40678), (14, 40684), (15, 40690), (16, 40699), (23, 40795),

Gene: ValleyTerrace_91 Start: 37979, Stop: 38338, Start Num: 4
Candidate Starts for ValleyTerrace_91:
(Start: 4 @37979 has 180 MA's), (Start: 6 @38000 has 1 MA's), (9, 38027), (13, 38117), (14, 38123),
(15, 38129), (16, 38138), (23, 38234),

Gene: Wally_90 Start: 37529, Stop: 37888, Start Num: 4
Candidate Starts for Wally_90:
(Start: 4 @37529 has 180 MA's), (Start: 6 @37550 has 1 MA's), (9, 37577), (13, 37667), (14, 37673),
(15, 37679), (16, 37688), (23, 37784),

Gene: Willis_92 Start: 38869, Stop: 39228, Start Num: 4
Candidate Starts for Willis_92:
(Start: 4 @38869 has 180 MA's), (Start: 6 @38890 has 1 MA's), (9, 38917), (13, 39007), (14, 39013),
(15, 39019), (16, 39028), (23, 39124),

Gene: Yassified_87 Start: 37239, Stop: 37598, Start Num: 4
Candidate Starts for Yassified_87:
(Start: 4 @37239 has 180 MA's), (Start: 6 @37260 has 1 MA's), (9, 37287), (13, 37377), (14, 37383),
(15, 37389), (16, 37398), (23, 37494),

Gene: YemiJoy2021_92 Start: 38971, Stop: 39330, Start Num: 4
Candidate Starts for YemiJoy2021_92:
(Start: 4 @38971 has 180 MA's), (Start: 6 @38992 has 1 MA's), (9, 39019), (13, 39109), (14, 39115),
(15, 39121), (16, 39130), (23, 39226),

Gene: YoungMoneyMata_91 Start: 37730, Stop: 38089, Start Num: 4
Candidate Starts for YoungMoneyMata_91:
(Start: 4 @37730 has 180 MA's), (Start: 6 @37751 has 1 MA's), (9, 37778), (13, 37868), (14, 37874),
(15, 37880), (16, 37889), (23, 37985),

Gene: Yucca_91 Start: 38893, Stop: 39252, Start Num: 4
Candidate Starts for Yucca_91:
(Start: 4 @38893 has 180 MA's), (Start: 6 @38914 has 1 MA's), (9, 38941), (13, 39031), (14, 39037),
(15, 39043), (16, 39052), (23, 39148),

Gene: Zalkecks_92 Start: 38659, Stop: 39018, Start Num: 4
Candidate Starts for Zalkecks_92:
(Start: 4 @38659 has 180 MA's), (Start: 6 @38680 has 1 MA's), (9, 38707), (13, 38797), (14, 38803),
(15, 38809), (16, 38818), (23, 38914),

Gene: Zeenon_93 Start: 38586, Stop: 38945, Start Num: 4
Candidate Starts for Zeenon_93:
(Start: 4 @38586 has 180 MA's), (Start: 6 @38607 has 1 MA's), (9, 38634), (13, 38724), (14, 38730),
(15, 38736), (16, 38745), (23, 38841),

Gene: ZygoTaiga_90 Start: 38975, Stop: 39334, Start Num: 4
Candidate Starts for ZygoTaiga_90:
(Start: 4 @38975 has 180 MA's), (Start: 6 @38996 has 1 MA's), (9, 39023), (13, 39113), (14, 39119),
(15, 39125), (16, 39134), (23, 39230),