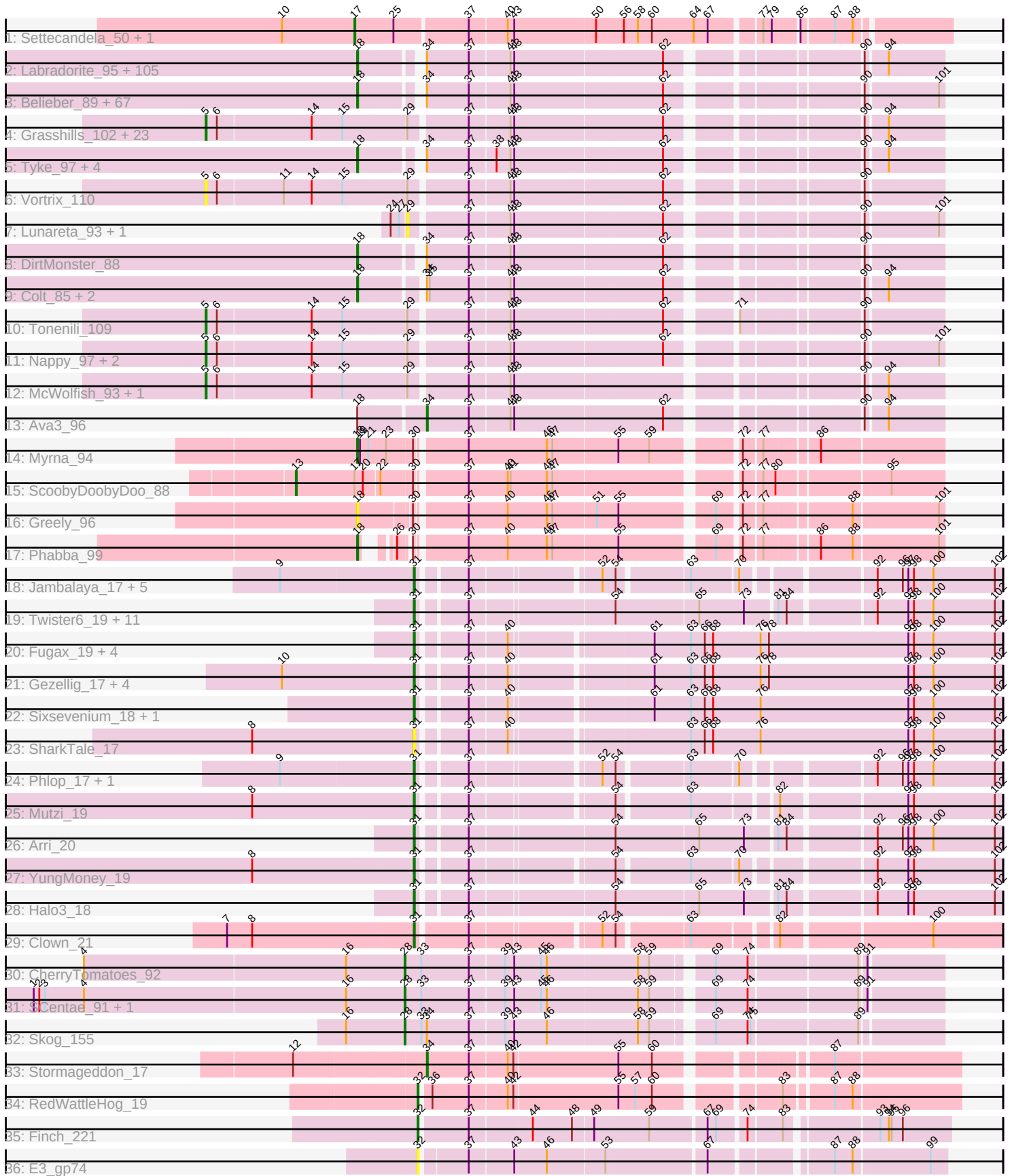


Pham 319023



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 319023 Report

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

Pham number 319023 has 269 members, 37 are drafts.

Phages represented in each track:

- Track 1 : Settecandela_50, Phrappuccino_50
- Track 2 : Labradorite_95, Roots515_94, ChaylaJr_90, FrayBell_101, ErnieJ_91, Flabslab_90, Moby_86, FoxtrotP1_95, BackyardAgain_92, BananaFence_94, Lethe_94, BeanWater_87, Tainan_100, Caravan_90, Melpomini_89, ScottMcG_92, Khaleesi_94, Megamind_94, Phox_92, Catera_92, Primadonna_89, MikeLiesIn_96, LinStu_95, Ewok_96, ParkTD_96, SoilZilla_91, Asterius_98, Bowman_98, Napoleon13_91, TinyTim_95, ShiaLabeouf_95, LolaVinca_97, BadAgartude_92, Zalkecks_96, Issimir_94, ChickenPhender_91, Kamryn_95, Naval22_103, EmToTheThree_98, Domi_89, YemiJoy2021_96, Moiqah_86, FudgeTart_95, ET08_84, Delylah_98, Gizmo_99, Pier_99, OrediggerDelux_98, Pinkcreek_86, Bonray_95, Erdmann_96, NedWong_96, Willis_96, Dietrick_87, Maguvora_101, Shrimp_95, Darko_95, QBert_89, EasyJones_98, Rocha_94, Turret_90, Shelob_97, HyRo_87, Cleatunium_90, Blackbrain_90, Norm_96, Stubby_88, Spud_95, Lukilu_86, Zeenon_97, Janyra_97, Cactojaque_90, GoldenSnow_100, Drazdys_95, LordLeafolot_101, Fongie_93, Shifa_84, Wally_94, Jessibeth14_94, Pleione_98, StephanieG_94, ZygoTaiga_94, Capablanca_97, Matsumoto_94, Rabinovich_92, Lee7_98, Bezza_89, Delilah_95, Daffodil_100, Morizzled23_95, SrishMeg2525_94, Dandelion_102, Puhon_100, Alice_88, MoMoMixon_96, Maturis_93, DeejaClivia_84, Astraea_93, Dessert_96, RoMag_90, Mangeria_95, Yucca_95, InterFolia_104, PharkleMinkus_99, Loanshark_95, Rizal_92
- Track 3 : Belieber_89, Charge21_91, Atlantean_94, StubbySaigey_97, Pupusa_100, CindyLou_96, Naija_94, Sebata_96, Iota_89, Ngannou_91, Shnickers_95, JPickles_93, Fixie_87, Essence_92, Halldule_88, McGee_96, Substance289_92, Audrick_97, Sauce_95, Babyland_95, Amataga_95, Guwapp_94, InigoMontoya_96, ArcherS7_94, Blackdragon_89, Ronan_88, Ablatia_93, JulietS_88, Derek_95, Jemmno_95, Cali_90, Duckfeet_86, Jedediah_98, Ghost_94, EmmaElysia_94, Rahel_94, Basquiat_91, YoungMoneyMata_95, Spec_92, Kboogie_98, JustHall_91, Trinitium_91, Quasimodo_95, Jaygup_95, Phusco_95, Grungle_82, GlutenPhree_96, SilverDipper_96, Shagnato_87, Yassified_91, Adlitam_95, Gamgam_95, Koguma_91, Sprinklers_90, Phlegm_97, SmallFry_95, Chomp_94, Pivoine_94, LRRHood_89, Ading_95, CharlieB_90, BobaPhatt_91, Bangla1971_96, Patter_95, Momo_94, Fludd_95, Latch_95, ValleyTerrace_95
- Track 4 : Grasshills_102, Salacia_99, Gabriel_97, EggYFarm_103, NuevoMundo_101, Concombre_102, Bigswole_100, IkeLoa_89, Nidhogg_96, DTDevon_96, Demodog_102, DrPhinkDaddy_94, SVoro_93, JayJay_101, Tortoise16_93, Izajani_95, Mikro_93, Maby2021_95, BigCity_103, Bread_95, Breeniome_95, Jezreel_95, NoodleTree_103, LookingGlass_96

- Track 5 : Tyke_97, Bipolarisk_94, Bxz1_93, Pio_99, Burrough_95
- Track 6 : Vortrix_110
- Track 7 : Lunareta_93, Montpel_93
- Track 8 : DirtMonster_88
- Track 9 : Colt_85, Cane17_84, Blubba_84
- Track 10 : Tonenili_109
- Track 11 : Nappy_97, LifeSavor_94, SiwenD96_95
- Track 12 : McWolfish_93, PurduePete_95
- Track 13 : Ava3_96
- Track 14 : Myrna_94
- Track 15 : ScoobyDoobyDoo_88
- Track 16 : Greely_96
- Track 17 : Phabba_99
- Track 18 : Jambalaya_17, Savbucketdawg_17, TillyBobJoe_17, Portcullis_17, Shinji_17, JohnPork_17
- Track 19 : Twister6_19, Danyall_19, SmokingBunny_17, RogerDodger_20, CoveyB_19, Nubi_17, Togo_17, Evamon_17, CherryCola_20, Salvador_17, VanDeWege_20, Valary_20
- Track 20 : Fugax_19, PinkCoffee_19, KimmyK_19, ClamChowder_19, Barb_19
- Track 21 : Gezellig_17, Sendy_18, Wizard_17, Egi03_17, Fireball_18
- Track 22 : Sixsevenium_18, Bakery_18
- Track 23 : SharkTale_17
- Track 24 : Phlop_17, PullumCavea_17
- Track 25 : Mutzi_19
- Track 26 : Arri_20
- Track 27 : YungMoney_19
- Track 28 : Halo3_18
- Track 29 : Clown_21
- Track 30 : CherryTomatoes_92
- Track 31 : SCentae_91, Pupper_92
- Track 32 : Skog_155
- Track 33 : Stormageddon_17
- Track 34 : RedWattleHog_19
- Track 35 : Finch_221
- Track 36 : E3_gp74

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

The start number called the most often in the published annotations is 18, it was called in 165 of the 232 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Ablatia_93, Ading_95, Adlitam_95, Alice_88, Amataga_95, ArcherS7_94, Asterius_98, Astraea_93, Atlantean_94, Audrick_97, Babyland_95, BackyardAgain_92, BadAgartude_92, BananaFence_94, Bangla1971_96, Basquiat_91, BeanWater_87, Belieber_89, Bezza_89, Bipolarisk_94, Blackbrain_90, Blackdragon_89, Blubba_84, BobaPhatt_91, Bonray_95, Bowman_98, Burrough_95, Bxz1_93, Cactojaque_90, Cali_90, Cane17_84, Capablanca_97, Caravan_90, Catera_92, Chargie21_91, CharlieB_90, ChaylaJr_90, ChickenPhender_91, Chomp_94, CindyLou_96, Cleatunium_90, Colt_85, Daffodil_100, Dandelion_102,

Darko_95, DeejaClivia_84, Delilah_95, Delylah_98, Derek_95, Dessert_96, Dietrick_87, DirtMonster_88, Domi_89, Drazdys_95, Duckfeet_86, ET08_84, EasyJones_98, EmToTheThree_98, EmmaElysia_94, Erdmann_96, ErnieJ_91, Essence_92, Ewok_96, Fixie_87, FlabsLab_90, Fludd_95, Fongie_93, FoxtrotP1_95, FrayBell_101, FudgeTart_95, Gamgam_95, Ghost_94, Gizmo_99, GlutenPhree_96, GoldenSnow_100, Greely_96, Grungle_82, Guwapp_94, Halldule_88, HyRo_87, InigoMontoya_96, InterFolia_104, Iota_89, Issimir_94, JPickles_93, JaniyrA_97, Jaygup_95, Jedediah_98, Jemmno_95, Jessibeth14_94, JulietS_88, JustHall_91, Kamryn_95, Kboogie_98, Khaleesi_94, Koguma_91, LRRHood_89, Labradorite_95, Latch_95, Lee7_98, Lethe_94, LinStu_95, Loanshark_95, LolaVinca_97, LordLeafolot_101, Lukilu_86, Maguvora_101, Mangeria_95, Matsumoto_94, Maturis_93, McGee_96, Megamind_94, Melpomini_89, MikeLiesIn_96, MoMoMixon_96, Moby_86, Moiqah_86, Momo_94, Morizzled23_95, Myrna_94, Naija_94, Napoleon13_91, Naval22_103, NedWong_96, Ngannou_91, Norm_96, OrediggerDelux_98, ParkTD_96, Patter_95, Phabba_99, PharkleMinkus_99, Phlegm_97, Phox_92, Phusco_95, Pier_99, Pinkcreek_86, Pio_99, Pivoine_94, Pleione_98, Primadonna_89, Puhon_100, Pupusa_100, QBert_89, Quasimodo_95, Rabinovich_92, Rahel_94, Rizal_92, RoMag_90, Rocha_94, Ronan_88, Roots515_94, Sauce_95, ScottMcG_92, Sebata_96, Shaqnato_87, Shelob_97, ShiaLabeouf_95, Shifa_84, Shnickers_95, Shrimp_95, SilverDipper_96, SmallFry_95, SoilZilla_91, Spec_92, Sprinklers_90, Spud_95, SrishMeg2525_94, StephanieG_94, StubbySaigey_97, Stubby_88, Substance289_92, Tainan_100, TinyTim_95, Trinitium_91, Turret_90, Tyke_97, ValleyTerrace_95, Wally_94, Willis_96, Yassified_91, YemiJoy2021_96, YoungMoneyMata_95, Yucca_95, Zalkecks_96, Zeenon_97, ZygoTaiga_94,

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

- Ava3_96,

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

- Arri_20, Bakery_18, Barb_19, BigCity_103, Bigswole_100, Bread_95, Breeniome_95, CherryCola_20, CherryTomatoes_92, ClamChowder_19, Clown_21, Concombre_102, CoveyB_19, DTDevon_96, Danyall_19, Demodog_102, DrPhinkDaddy_94, E3_gp74, EggyFarm_103, Egi03_17, Evamon_17, Finch_221, Fireball_18, Fugax_19, Gabriel_97, Gezellig_17, Grasshills_102, Halo3_18, IkeLoa_89, Izajani_95, Jambalaya_17, JayJay_101, Jezreel_95, JohnPork_17, KimmyK_19, LifeSavor_94, LookingGlass_96, Lunareta_93, Maby2021_95, McWolfish_93, Mikro_93, Montpel_93, Mutzi_19, Nappy_97, Nidhogg_96, NoodleTree_103, Nubi_17, NuevoMundo_101, Phlop_17, Phrappuccino_50, PinkCoffee_19, Portcullis_17, PullumCavea_17, Pupper_92, PurduePete_95, RedWattleHog_19, RogerDodger_20, SCentae_91, SVoro_93, Salacia_99, Salvador_17, Savbucketdawg_17, ScoobyDoobyDoo_88, Sendy_18, Settecandela_50, SharkTale_17, Shinji_17, SiwenD96_95, Sixsevenium_18, Skog_155, SmokingBunny_17, Stormageddon_17, TillyBobJoe_17, Togo_17, Tonenili_109, Tortoise16_93, Twister6_19, Valary_20, VanDeWege_20, Vortrix_110, Wizard_17, YungMoney_19,

Summary by start number:

Start 5:

- Found in 31 of 269 (11.5%) of genes in pham
- Manual Annotations of this start: 23 of 232
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BigCity_103 (C1), Bigswole_100 (C1), Bread_95 (C1), Breeniome_95 (C1), Concombre_102 (C1), DTDevon_96 (C1), Demodog_102 (C1), DrPhinkDaddy_94 (C1), EggyFarm_103 (C1), Gabriel_97 (C1), Grasshills_102 (C1), IkeLoa_89 (C1), Izajani_95 (C1), JayJay_101 (C1), Jezreel_95 (C1), LifeSavor_94 (C1), LookingGlass_96 (C1), Maby2021_95 (C1), McWolfish_93 (C1), Mikro_93 (C1), Nappy_97 (C1), Nidhogg_96 (C1), NoodleTree_103 (C1), NuevoMundo_101 (C1), PurduePete_95 (C1), SVoro_93 (C1), Salacia_99 (C1), SiwenD96_95 (C1), Tonenili_109 (C1), Tortoise16_93 (C1), Vortrix_110 (C1),

Start 13:

- Found in 1 of 269 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 232
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ScoobyDoobyDoo_88 (C2),

Start 17:

- Found in 3 of 269 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 232
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Phrappuccino_50 (AA), Settecandela_50 (AA),

Start 18:

- Found in 187 of 269 (69.5%) of genes in pham
- Manual Annotations of this start: 165 of 232
- Called 99.5% of time when present
- Phage (with cluster) where this start called: Ablatia_93 (C1), Ading_95 (C1), Adlitam_95 (C1), Alice_88 (C1), Amataga_95 (C1), ArcherS7_94 (C1), Asterius_98 (C1), Astraea_93 (C1), Atlantean_94 (C1), Audrick_97 (C1), Babyland_95 (C1), BackyardAgain_92 (C1), BadAgartude_92 (C1), BananaFence_94 (C1), Bangla1971_96 (C1), Basquiat_91 (C1), BeanWater_87 (C1), Belieber_89 (C1), Bezza_89 (C1), Bipolarisk_94 (C1), Blackbrain_90 (C1), Blackdragon_89 (C1), Blubba_84 (C1), BobaPhatt_91 (C1), Bonray_95 (C1), Bowman_98 (C1), Burrough_95 (C1), Bxz1_93 (C1), Cactojaque_90 (C1), Cali_90 (C1), Cane17_84 (C1), Capablanca_97 (C1), Caravan_90 (C1), Catera_92 (C1), Chargie21_91 (C1), CharlieB_90 (C1), ChaylaJr_90 (C1), ChickenPhender_91 (C1), Chomp_94 (C1), CindyLou_96 (C1), Cleatunium_90 (C1), Colt_85 (C1), Daffodil_100 (C1), Dandelion_102 (C1), Darko_95 (C1), DeejaClivia_84 (C1), Delilah_95 (C1), Delylah_98 (C1), Derek_95 (C1), Dessert_96 (C1), Dietrick_87 (C1), DirtMonster_88 (C1), Domi_89 (C1), Drazdys_95 (C1), Duckfeet_86 (C1), ET08_84 (C1), EasyJones_98 (C1), EmToTheThree_98 (C1), EmmaElysia_94 (C1), Erdmann_96 (C1), ErnieJ_91 (C1), Essence_92 (C1), Ewok_96 (C1), Fixie_87 (C1), Flabslab_90 (C1), Fludd_95 (C1), Fongie_93 (C1), FoxtrotP1_95 (C1), FrayBell_101 (C1), FudgeTart_95 (C1), Gamgam_95 (C1), Ghost_94 (C1), Gizmo_99 (C1), GlutenPhree_96 (C1), GoldenSnow_100 (C1), Greely_96 (C2), Grungle_82 (C1), Guwapp_94 (C1), Halldule_88 (C1), HyRo_87 (C1), InigoMontoya_96 (C1), InterFolia_104 (C1), Iota_89 (C1), Issimir_94 (C1), JPickles_93 (C1), Janiyr_97 (C1), Jaygup_95 (C1), Jedediah_98 (C1), Jemmno_95 (C1), Jessibeth14_94 (C1), JulietS_88 (C1), JustHall_91 (C1), Kamryn_95 (C1), Kboogie_98 (C1), Khaleesi_94 (C1), Koguma_91 (C1), LRRHood_89 (C1), Labradorite_95 (C1), Latch_95 (C1), Lee7_98 (C1), Lethe_94 (C1), LinStu_95 (C1), Loanshark_95 (C1), LolaVinca_97 (C1), LordLeafolot_101 (C1), Lukilu_86 (C1), Maguvora_101 (C1), Mangeria_95 (C1), Matsumoto_94 (C1), Maturis_93 (C1), McGee_96 (C1), Megamind_94 (C1),

Melpomini_89 (C1), MikeLiesIn_96 (C1), MoMoMixon_96 (C1), Moby_86 (C1), Moiqah_86 (C1), Momo_94 (C1), Morizzled23_95 (C1), Myrna_94 (C2), Naija_94 (C1), Napoleon13_91 (C1), Naval22_103 (C1), NedWong_96 (C1), Ngannou_91 (C1), Norm_96 (C1), OrediggerDelux_98 (C1), ParkTD_96 (C1), Patter_95 (C1), Phabba_99 (C2), PharkleMinkus_99 (C1), Phlegm_97 (C1), Phox_92 (C1), Phusco_95 (C1), Pier_99 (C1), Pinkcreek_86 (C1), Pio_99 (C1), Pivoine_94 (C1), Pleione_98 (C1), Primadonna_89 (C1), Puhon_100 (C1), Pupusa_100 (C1), QBert_89 (C1), Quasimodo_95 (C1), Rabinovish_92 (C1), Rahel_94 (C1), Rizal_92 (C1), RoMag_90 (C1), Rocha_94 (C1), Ronan_88 (C1), Roots515_94 (C1), Sauce_95 (C1), ScottMcG_92 (C1), Sebata_96 (C1), Shaqnato_87 (C1), Shelob_97 (C1), ShiaLabeouf_95 (C1), Shifa_84 (C1), Shnicks_95 (C1), Shrimp_95 (C1), SilverDipper_96 (C1), SmallFry_95 (C1), SoilZilla_91 (C1), Spec_92 (C1), Sprinklers_90 (C1), Spud_95 (C1), SrishMeg2525_94 (C1), StephanieG_94 (C1), StubbySaigey_97 (C1), Stubby_88 (C1), Substance289_92 (C1), Tainan_100 (C1), TinyTim_95 (C1), Trinitium_91 (C1), Turret_90 (C1), Tyke_97 (C1), ValleyTerrace_95 (C1), Wally_94 (C1), Willis_96 (C1), Yassified_91 (C1), YemiJoy2021_96 (C1), YoungMoneyMata_95 (C1), Yucca_95 (C1), Zalkecks_96 (C1), Zeenon_97 (C1), ZygoTaiga_94 (C1),

Start 28:

- Found in 4 of 269 (1.5%) of genes in pham
- Manual Annotations of this start: 4 of 232
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_92 (DO), Pupper_92 (DO), SCentae_91 (DO), Skog_155 (DO),

Start 29:

- Found in 33 of 269 (12.3%) of genes in pham
- No Manual Annotations of this start.
- Called 6.1% of time when present
- Phage (with cluster) where this start called: Lunareta_93 (C1), Montpel_93 (C1),

Start 31:

- Found in 38 of 269 (14.1%) of genes in pham
- Manual Annotations of this start: 33 of 232
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri_20 (DC1), Bakery_18 (DC1), Barb_19 (DC1), CherryCola_20 (DC1), ClamChowder_19 (DC1), Clown_21 (DC2), CoveyB_19 (DC1), Danyall_19 (DC1), Egi03_17 (DC1), Evamon_17 (DC1), Fireball_18 (DC1), Fugax_19 (DC1), Gezellig_17 (DC1), Halo3_18 (DC1), Jambalaya_17 (DC1), JohnPork_17 (DC1), KimmyK_19 (DC1), Mutzi_19 (DC1), Nubi_17 (DC1), Phlop_17 (DC1), PinkCoffee_19 (DC1), Portcullis_17 (DC1), PullumCavea_17 (DC1), RogerDodger_20 (DC1), Salvador_17 (DC1), Savbucketdawg_17 (DC1), Sendy_18 (DC1), SharkTale_17 (DC1), Shinji_17 (DC1), Sixsevenium_18 (DC1), SmokingBunny_17 (DC1), TillyBobJoe_17 (DC1), Togo_17 (DC1), Twister6_19 (DC1), Valary_20 (DC1), VanDeWege_20 (DC1), Wizard_17 (DC1), YungMoney_19 (DC1),

Start 32:

- Found in 3 of 269 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 232
- Called 100.0% of time when present

- Phage (with cluster) where this start called: E3_gp74 (singleton), Finch_221 (singleton), RedWattleHog_19 (DX),

Start 34:

- Found in 186 of 269 (69.1%) of genes in pham
- Manual Annotations of this start: 2 of 232
- Called 1.1% of time when present
- Phage (with cluster) where this start called: Ava3_96 (C1), Stormageddon_17 (DX),

Summary by clusters:

There are 8 clusters represented in this pham: AA, DO, singleton, DX, C2, C1, DC2, DC1,

Info for manual annotations of cluster AA:

- Start number 17 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster C1:

- Start number 5 was manually annotated 23 times for cluster C1.
- Start number 18 was manually annotated 163 times for cluster C1.
- Start number 34 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:

- Start number 13 was manually annotated 1 time for cluster C2.
- Start number 18 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster DC1:

- Start number 31 was manually annotated 32 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 31 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DO:

- Start number 28 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DX:

- Start number 32 was manually annotated 1 time for cluster DX.
- Start number 34 was manually annotated 1 time for cluster DX.

Gene Information:

Gene: Ablatia_93 Start: 39076, Stop: 39627, Start Num: 18

Candidate Starts for Ablatia_93:

(Start: 18 @39076 has 165 MA's), (Start: 34 @39130 has 2 MA's), (37, 39175), (41, 39217), (43, 39220), (62, 39373), (90, 39547), (101, 39622),

Gene: Ading_95 Start: 40345, Stop: 40896, Start Num: 18

Candidate Starts for Ading_95:

(Start: 18 @40345 has 165 MA's), (Start: 34 @40399 has 2 MA's), (37, 40444), (41, 40486), (43, 40489), (62, 40642), (90, 40816), (101, 40891),

Gene: Adlitam_95 Start: 40362, Stop: 40913, Start Num: 18

Candidate Starts for Adlitam_95:

(Start: 18 @40362 has 165 MA's), (Start: 34 @40416 has 2 MA's), (37, 40461), (41, 40503), (43, 40506), (62, 40659), (90, 40833), (101, 40908),

Gene: Alice_88 Start: 38224, Stop: 38775, Start Num: 18

Candidate Starts for Alice_88:

(Start: 18 @38224 has 165 MA's), (Start: 34 @38278 has 2 MA's), (37, 38323), (41, 38365), (43, 38368), (62, 38521), (90, 38695), (94, 38716),

Gene: Amataga_95 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Amataga_95:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: ArcherS7_94 Start: 39925, Stop: 40476, Start Num: 18

Candidate Starts for ArcherS7_94:

(Start: 18 @39925 has 165 MA's), (Start: 34 @39979 has 2 MA's), (37, 40024), (41, 40066), (43, 40069), (62, 40222), (90, 40396), (101, 40471),

Gene: Arri_20 Start: 11722, Stop: 12300, Start Num: 31

Candidate Starts for Arri_20:

(Start: 31 @11722 has 33 MA's), (37, 11767), (54, 11911), (65, 11998), (73, 12046), (81, 12076), (84, 12085), (92, 12166), (96, 12193), (97, 12199), (98, 12205), (100, 12226), (102, 12292),

Gene: Asterius_98 Start: 39910, Stop: 40461, Start Num: 18

Candidate Starts for Asterius_98:

(Start: 18 @39910 has 165 MA's), (Start: 34 @39964 has 2 MA's), (37, 40009), (41, 40051), (43, 40054), (62, 40207), (90, 40381), (94, 40402),

Gene: Astraea_93 Start: 39786, Stop: 40337, Start Num: 18

Candidate Starts for Astraea_93:

(Start: 18 @39786 has 165 MA's), (Start: 34 @39840 has 2 MA's), (37, 39885), (41, 39927), (43, 39930), (62, 40083), (90, 40257), (94, 40278),

Gene: Atlantean_94 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Atlantean_94:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: Audrick_97 Start: 39586, Stop: 40137, Start Num: 18

Candidate Starts for Audrick_97:

(Start: 18 @39586 has 165 MA's), (Start: 34 @39640 has 2 MA's), (37, 39685), (41, 39727), (43, 39730), (62, 39883), (90, 40057), (101, 40132),

Gene: Ava3_96 Start: 40337, Stop: 40834, Start Num: 34

Candidate Starts for Ava3_96:

(Start: 18 @40283 has 165 MA's), (Start: 34 @40337 has 2 MA's), (37, 40382), (41, 40424), (43, 40427), (62, 40580), (90, 40754), (94, 40775),

Gene: Babyland_95 Start: 39046, Stop: 39597, Start Num: 18

Candidate Starts for Babyland_95:

(Start: 18 @39046 has 165 MA's), (Start: 34 @39100 has 2 MA's), (37, 39145), (41, 39187), (43, 39190), (62, 39343), (90, 39517), (101, 39592),

Gene: BackyardAgain_92 Start: 39103, Stop: 39654, Start Num: 18

Candidate Starts for BackyardAgain_92:

(Start: 18 @39103 has 165 MA's), (Start: 34 @39157 has 2 MA's), (37, 39202), (41, 39244), (43, 39247), (62, 39400), (90, 39574), (94, 39595),

Gene: BadAgartude_92 Start: 41437, Stop: 41988, Start Num: 18

Candidate Starts for BadAgartude_92:

(Start: 18 @41437 has 165 MA's), (Start: 34 @41491 has 2 MA's), (37, 41536), (41, 41578), (43, 41581), (62, 41734), (90, 41908), (94, 41929),

Gene: Bakery_18 Start: 10908, Stop: 11501, Start Num: 31

Candidate Starts for Bakery_18:

(Start: 31 @10908 has 33 MA's), (37, 10953), (40, 10992), (61, 11127), (63, 11166), (66, 11181), (68, 11190), (76, 11241), (97, 11400), (98, 11406), (100, 11427), (102, 11493),

Gene: BananaFence_94 Start: 40148, Stop: 40699, Start Num: 18

Candidate Starts for BananaFence_94:

(Start: 18 @40148 has 165 MA's), (Start: 34 @40202 has 2 MA's), (37, 40247), (41, 40289), (43, 40292), (62, 40445), (90, 40619), (94, 40640),

Gene: Bangla1971_96 Start: 40055, Stop: 40606, Start Num: 18

Candidate Starts for Bangla1971_96:

(Start: 18 @40055 has 165 MA's), (Start: 34 @40109 has 2 MA's), (37, 40154), (41, 40196), (43, 40199), (62, 40352), (90, 40526), (101, 40601),

Gene: Barb_19 Start: 11685, Stop: 12278, Start Num: 31

Candidate Starts for Barb_19:

(Start: 31 @11685 has 33 MA's), (37, 11730), (40, 11769), (61, 11904), (63, 11943), (66, 11958), (68, 11967), (76, 12018), (78, 12027), (97, 12177), (98, 12183), (100, 12204), (102, 12270),

Gene: Basquiat_91 Start: 38600, Stop: 39151, Start Num: 18

Candidate Starts for Basquiat_91:

(Start: 18 @38600 has 165 MA's), (Start: 34 @38654 has 2 MA's), (37, 38699), (41, 38741), (43, 38744), (62, 38897), (90, 39071), (101, 39146),

Gene: BeanWater_87 Start: 39999, Stop: 40550, Start Num: 18

Candidate Starts for BeanWater_87:

(Start: 18 @39999 has 165 MA's), (Start: 34 @40053 has 2 MA's), (37, 40098), (41, 40140), (43, 40143), (62, 40296), (90, 40470), (94, 40491),

Gene: Belieber_89 Start: 38959, Stop: 39510, Start Num: 18

Candidate Starts for Belieber_89:

(Start: 18 @38959 has 165 MA's), (Start: 34 @39013 has 2 MA's), (37, 39058), (41, 39100), (43, 39103), (62, 39256), (90, 39430), (101, 39505),

Gene: Bezza_89 Start: 38915, Stop: 39466, Start Num: 18

Candidate Starts for Bezza_89:

(Start: 18 @38915 has 165 MA's), (Start: 34 @38969 has 2 MA's), (37, 39014), (41, 39056), (43, 39059), (62, 39212), (90, 39386), (94, 39407),

Gene: BigCity_103 Start: 42658, Stop: 43377, Start Num: 5

Candidate Starts for BigCity_103:

(Start: 5 @42658 has 23 MA's), (6, 42670), (14, 42769), (15, 42802), (29, 42868), (37, 42925), (41, 42967), (43, 42970), (62, 43123), (90, 43297), (94, 43318),

Gene: Bigswole_100 Start: 43006, Stop: 43725, Start Num: 5

Candidate Starts for Bigswole_100:

(Start: 5 @43006 has 23 MA's), (6, 43018), (14, 43117), (15, 43150), (29, 43216), (37, 43273), (41, 43315), (43, 43318), (62, 43471), (90, 43645), (94, 43666),

Gene: Bipolarisk_94 Start: 40313, Stop: 40864, Start Num: 18

Candidate Starts for Bipolarisk_94:

(Start: 18 @40313 has 165 MA's), (Start: 34 @40367 has 2 MA's), (37, 40412), (38, 40439), (41, 40454), (43, 40457), (62, 40610), (90, 40784), (94, 40805),

Gene: Blackbrain_90 Start: 38417, Stop: 38968, Start Num: 18

Candidate Starts for Blackbrain_90:

(Start: 18 @38417 has 165 MA's), (Start: 34 @38471 has 2 MA's), (37, 38516), (41, 38558), (43, 38561), (62, 38714), (90, 38888), (94, 38909),

Gene: Blackdragon_89 Start: 39131, Stop: 39682, Start Num: 18

Candidate Starts for Blackdragon_89:

(Start: 18 @39131 has 165 MA's), (Start: 34 @39185 has 2 MA's), (37, 39230), (41, 39272), (43, 39275), (62, 39428), (90, 39602), (101, 39677),

Gene: Blubba_84 Start: 38958, Stop: 39512, Start Num: 18

Candidate Starts for Blubba_84:

(Start: 18 @38958 has 165 MA's), (Start: 34 @39015 has 2 MA's), (35, 39018), (37, 39060), (41, 39102), (43, 39105), (62, 39258), (90, 39432), (94, 39453),

Gene: BobaPhatt_91 Start: 38240, Stop: 38791, Start Num: 18

Candidate Starts for BobaPhatt_91:

(Start: 18 @38240 has 165 MA's), (Start: 34 @38294 has 2 MA's), (37, 38339), (41, 38381), (43, 38384), (62, 38537), (90, 38711), (101, 38786),

Gene: Bonray_95 Start: 40709, Stop: 41260, Start Num: 18

Candidate Starts for Bonray_95:

(Start: 18 @40709 has 165 MA's), (Start: 34 @40763 has 2 MA's), (37, 40808), (41, 40850), (43, 40853), (62, 41006), (90, 41180), (94, 41201),

Gene: Bowman_98 Start: 40901, Stop: 41452, Start Num: 18

Candidate Starts for Bowman_98:

(Start: 18 @40901 has 165 MA's), (Start: 34 @40955 has 2 MA's), (37, 41000), (41, 41042), (43, 41045), (62, 41198), (90, 41372), (94, 41393),

Gene: Bread_95 Start: 40204, Stop: 40923, Start Num: 5

Candidate Starts for Bread_95:

(Start: 5 @40204 has 23 MA's), (6, 40216), (14, 40315), (15, 40348), (29, 40414), (37, 40471), (41, 40513), (43, 40516), (62, 40669), (90, 40843), (94, 40864),

Gene: Breeniome_95 Start: 39427, Stop: 40146, Start Num: 5

Candidate Starts for Breeniome_95:

(Start: 5 @39427 has 23 MA's), (6, 39439), (14, 39538), (15, 39571), (29, 39637), (37, 39694), (41, 39736), (43, 39739), (62, 39892), (90, 40066), (94, 40087),

Gene: Burrough_95 Start: 40862, Stop: 41413, Start Num: 18

Candidate Starts for Burrough_95:

(Start: 18 @40862 has 165 MA's), (Start: 34 @40916 has 2 MA's), (37, 40961), (38, 40988), (41, 41003), (43, 41006), (62, 41159), (90, 41333), (94, 41354),

Gene: Bxz1_93 Start: 41913, Stop: 42464, Start Num: 18

Candidate Starts for Bxz1_93:

(Start: 18 @41913 has 165 MA's), (Start: 34 @41967 has 2 MA's), (37, 42012), (38, 42039), (41, 42054), (43, 42057), (62, 42210), (90, 42384), (94, 42405),

Gene: Cactojaque_90 Start: 38524, Stop: 39075, Start Num: 18

Candidate Starts for Cactojaque_90:

(Start: 18 @38524 has 165 MA's), (Start: 34 @38578 has 2 MA's), (37, 38623), (41, 38665), (43, 38668), (62, 38821), (90, 38995), (94, 39016),

Gene: Cali_90 Start: 40439, Stop: 40990, Start Num: 18

Candidate Starts for Cali_90:

(Start: 18 @40439 has 165 MA's), (Start: 34 @40493 has 2 MA's), (37, 40538), (41, 40580), (43, 40583), (62, 40736), (90, 40910), (101, 40985),

Gene: Cane17_84 Start: 39031, Stop: 39585, Start Num: 18

Candidate Starts for Cane17_84:

(Start: 18 @39031 has 165 MA's), (Start: 34 @39088 has 2 MA's), (35, 39091), (37, 39133), (41, 39175), (43, 39178), (62, 39331), (90, 39505), (94, 39526),

Gene: Capablanca_97 Start: 40732, Stop: 41283, Start Num: 18

Candidate Starts for Capablanca_97:

(Start: 18 @40732 has 165 MA's), (Start: 34 @40786 has 2 MA's), (37, 40831), (41, 40873), (43, 40876), (62, 41029), (90, 41203), (94, 41224),

Gene: Caravan_90 Start: 40236, Stop: 40787, Start Num: 18

Candidate Starts for Caravan_90:

(Start: 18 @40236 has 165 MA's), (Start: 34 @40290 has 2 MA's), (37, 40335), (41, 40377), (43, 40380), (62, 40533), (90, 40707), (94, 40728),

Gene: Catera_92 Start: 38689, Stop: 39240, Start Num: 18

Candidate Starts for Catera_92:

(Start: 18 @38689 has 165 MA's), (Start: 34 @38743 has 2 MA's), (37, 38788), (41, 38830), (43, 38833), (62, 38986), (90, 39160), (94, 39181),

Gene: Chargie21_91 Start: 38600, Stop: 39151, Start Num: 18

Candidate Starts for Chargie21_91:

(Start: 18 @38600 has 165 MA's), (Start: 34 @38654 has 2 MA's), (37, 38699), (41, 38741), (43, 38744), (62, 38897), (90, 39071), (101, 39146),

Gene: CharlieB_90 Start: 38437, Stop: 38988, Start Num: 18

Candidate Starts for CharlieB_90:

(Start: 18 @38437 has 165 MA's), (Start: 34 @38491 has 2 MA's), (37, 38536), (41, 38578), (43, 38581), (62, 38734), (90, 38908), (101, 38983),

Gene: ChaylaJr_90 Start: 38315, Stop: 38866, Start Num: 18

Candidate Starts for ChaylaJr_90:

(Start: 18 @38315 has 165 MA's), (Start: 34 @38369 has 2 MA's), (37, 38414), (41, 38456), (43, 38459), (62, 38612), (90, 38786), (94, 38807),

Gene: CherryCola_20 Start: 11921, Stop: 12499, Start Num: 31

Candidate Starts for CherryCola_20:

(Start: 31 @11921 has 33 MA's), (37, 11966), (54, 12110), (65, 12197), (73, 12245), (81, 12275), (84, 12284), (92, 12365), (97, 12398), (98, 12404), (100, 12425), (102, 12491),

Gene: CherryTomatoes_92 Start: 40507, Stop: 41040, Start Num: 28

Candidate Starts for CherryTomatoes_92:

(4, 40165), (16, 40444), (Start: 28 @40507 has 4 MA's), (33, 40525), (37, 40576), (39, 40612), (43, 40621), (45, 40648), (46, 40654), (58, 40750), (59, 40762), (69, 40816), (74, 40849), (89, 40957), (91, 40963),

Gene: ChickenPhender_91 Start: 38648, Stop: 39199, Start Num: 18

Candidate Starts for ChickenPhender_91:

(Start: 18 @38648 has 165 MA's), (Start: 34 @38702 has 2 MA's), (37, 38747), (41, 38789), (43, 38792), (62, 38945), (90, 39119), (94, 39140),

Gene: Chomp_94 Start: 40895, Stop: 41446, Start Num: 18

Candidate Starts for Chomp_94:

(Start: 18 @40895 has 165 MA's), (Start: 34 @40949 has 2 MA's), (37, 40994), (41, 41036), (43, 41039), (62, 41192), (90, 41366), (101, 41441),

Gene: CindyLou_96 Start: 40936, Stop: 41487, Start Num: 18

Candidate Starts for CindyLou_96:

(Start: 18 @40936 has 165 MA's), (Start: 34 @40990 has 2 MA's), (37, 41035), (41, 41077), (43, 41080), (62, 41233), (90, 41407), (101, 41482),

Gene: ClamChowder_19 Start: 11685, Stop: 12278, Start Num: 31

Candidate Starts for ClamChowder_19:

(Start: 31 @11685 has 33 MA's), (37, 11730), (40, 11769), (61, 11904), (63, 11943), (66, 11958), (68, 11967), (76, 12018), (78, 12027), (97, 12177), (98, 12183), (100, 12204), (102, 12270),

Gene: Cleatunium_90 Start: 39997, Stop: 40548, Start Num: 18

Candidate Starts for Cleatunium_90:

(Start: 18 @39997 has 165 MA's), (Start: 34 @40051 has 2 MA's), (37, 40096), (41, 40138), (43, 40141), (62, 40294), (90, 40468), (94, 40489),

Gene: Clown_21 Start: 13731, Stop: 14288, Start Num: 31

Candidate Starts for Clown_21:

(7, 13533), (8, 13560), (Start: 31 @13731 has 33 MA's), (37, 13782), (52, 13905), (54, 13917), (63, 13986), (82, 14064), (100, 14214),

Gene: Colt_85 Start: 39627, Stop: 40181, Start Num: 18

Candidate Starts for Colt_85:

(Start: 18 @39627 has 165 MA's), (Start: 34 @39684 has 2 MA's), (35, 39687), (37, 39729), (41, 39771), (43, 39774), (62, 39927), (90, 40101), (94, 40122),

Gene: Concombre_102 Start: 42847, Stop: 43566, Start Num: 5

Candidate Starts for Concombre_102:

(Start: 5 @42847 has 23 MA's), (6, 42859), (14, 42958), (15, 42991), (29, 43057), (37, 43114), (41, 43156), (43, 43159), (62, 43312), (90, 43486), (94, 43507),

Gene: CoveyB_19 Start: 11557, Stop: 12135, Start Num: 31

Candidate Starts for CoveyB_19:

(Start: 31 @11557 has 33 MA's), (37, 11602), (54, 11746), (65, 11833), (73, 11881), (81, 11911), (84, 11920), (92, 12001), (97, 12034), (98, 12040), (100, 12061), (102, 12127),

Gene: DTDevon_96 Start: 40767, Stop: 41486, Start Num: 5

Candidate Starts for DTDevon_96:

(Start: 5 @40767 has 23 MA's), (6, 40779), (14, 40878), (15, 40911), (29, 40977), (37, 41034), (41, 41076), (43, 41079), (62, 41232), (90, 41406), (94, 41427),

Gene: Daffodil_100 Start: 40601, Stop: 41152, Start Num: 18

Candidate Starts for Daffodil_100:

(Start: 18 @40601 has 165 MA's), (Start: 34 @40655 has 2 MA's), (37, 40700), (41, 40742), (43, 40745), (62, 40898), (90, 41072), (94, 41093),

Gene: Dandelion_102 Start: 43298, Stop: 43849, Start Num: 18

Candidate Starts for Dandelion_102:

(Start: 18 @43298 has 165 MA's), (Start: 34 @43352 has 2 MA's), (37, 43397), (41, 43439), (43, 43442), (62, 43595), (90, 43769), (94, 43790),

Gene: Danyall_19 Start: 11557, Stop: 12135, Start Num: 31

Candidate Starts for Danyall_19:

(Start: 31 @11557 has 33 MA's), (37, 11602), (54, 11746), (65, 11833), (73, 11881), (81, 11911), (84, 11920), (92, 12001), (97, 12034), (98, 12040), (100, 12061), (102, 12127),

Gene: Darko_95 Start: 40536, Stop: 41087, Start Num: 18

Candidate Starts for Darko_95:

(Start: 18 @40536 has 165 MA's), (Start: 34 @40590 has 2 MA's), (37, 40635), (41, 40677), (43, 40680), (62, 40833), (90, 41007), (94, 41028),

Gene: DeejaClivia_84 Start: 36454, Stop: 37005, Start Num: 18

Candidate Starts for DeejaClivia_84:

(Start: 18 @36454 has 165 MA's), (Start: 34 @36508 has 2 MA's), (37, 36553), (41, 36595), (43, 36598), (62, 36751), (90, 36925), (94, 36946),

Gene: Delilah_95 Start: 40602, Stop: 41153, Start Num: 18

Candidate Starts for Delilah_95:

(Start: 18 @40602 has 165 MA's), (Start: 34 @40656 has 2 MA's), (37, 40701), (41, 40743), (43, 40746), (62, 40899), (90, 41073), (94, 41094),

Gene: Delylah_98 Start: 40395, Stop: 40946, Start Num: 18

Candidate Starts for Delylah_98:

(Start: 18 @40395 has 165 MA's), (Start: 34 @40449 has 2 MA's), (37, 40494), (41, 40536), (43, 40539), (62, 40692), (90, 40866), (94, 40887),

Gene: Demodog_102 Start: 42847, Stop: 43566, Start Num: 5

Candidate Starts for Demodog_102:

(Start: 5 @42847 has 23 MA's), (6, 42859), (14, 42958), (15, 42991), (29, 43057), (37, 43114), (41, 43156), (43, 43159), (62, 43312), (90, 43486), (94, 43507),

Gene: Derek_95 Start: 40697, Stop: 41248, Start Num: 18

Candidate Starts for Derek_95:

(Start: 18 @40697 has 165 MA's), (Start: 34 @40751 has 2 MA's), (37, 40796), (41, 40838), (43, 40841), (62, 40994), (90, 41168), (101, 41243),

Gene: Dessert_96 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Dessert_96:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (94, 40099),

Gene: Dietrick_87 Start: 38351, Stop: 38902, Start Num: 18

Candidate Starts for Dietrick_87:

(Start: 18 @38351 has 165 MA's), (Start: 34 @38405 has 2 MA's), (37, 38450), (41, 38492), (43, 38495), (62, 38648), (90, 38822), (94, 38843),

Gene: DirtMonster_88 Start: 39193, Stop: 39744, Start Num: 18

Candidate Starts for DirtMonster_88:

(Start: 18 @39193 has 165 MA's), (Start: 34 @39247 has 2 MA's), (37, 39292), (41, 39334), (43, 39337), (62, 39490), (90, 39664),

Gene: Domi_89 Start: 39930, Stop: 40481, Start Num: 18

Candidate Starts for Domi_89:

(Start: 18 @39930 has 165 MA's), (Start: 34 @39984 has 2 MA's), (37, 40029), (41, 40071), (43, 40074), (62, 40227), (90, 40401), (94, 40422),

Gene: DrPhinkDaddy_94 Start: 40656, Stop: 41375, Start Num: 5

Candidate Starts for DrPhinkDaddy_94:

(Start: 5 @40656 has 23 MA's), (6, 40668), (14, 40767), (15, 40800), (29, 40866), (37, 40923), (41, 40965), (43, 40968), (62, 41121), (90, 41295), (94, 41316),

Gene: Drazdys_95 Start: 40399, Stop: 40950, Start Num: 18

Candidate Starts for Drazdys_95:

(Start: 18 @40399 has 165 MA's), (Start: 34 @40453 has 2 MA's), (37, 40498), (41, 40540), (43, 40543), (62, 40696), (90, 40870), (94, 40891),

Gene: Duckfeet_86 Start: 38404, Stop: 38955, Start Num: 18

Candidate Starts for Duckfeet_86:

(Start: 18 @38404 has 165 MA's), (Start: 34 @38458 has 2 MA's), (37, 38503), (41, 38545), (43, 38548), (62, 38701), (90, 38875), (101, 38950),

Gene: E3_gp74 Start: 35751, Stop: 36260, Start Num: 32

Candidate Starts for E3_gp74:

(Start: 32 @35751 has 2 MA's), (37, 35796), (43, 35841), (46, 35874), (53, 35934), (67, 36036), (87, 36147), (88, 36165), (99, 36243),

Gene: ET08_84 Start: 39373, Stop: 39924, Start Num: 18

Candidate Starts for ET08_84:

(Start: 18 @39373 has 165 MA's), (Start: 34 @39427 has 2 MA's), (37, 39472), (41, 39514), (43, 39517), (62, 39670), (90, 39844), (94, 39865),

Gene: EasyJones_98 Start: 39707, Stop: 40258, Start Num: 18

Candidate Starts for EasyJones_98:

(Start: 18 @39707 has 165 MA's), (Start: 34 @39761 has 2 MA's), (37, 39806), (41, 39848), (43, 39851), (62, 40004), (90, 40178), (94, 40199),

Gene: EggyFarm_103 Start: 42658, Stop: 43377, Start Num: 5

Candidate Starts for EggyFarm_103:

(Start: 5 @42658 has 23 MA's), (6, 42670), (14, 42769), (15, 42802), (29, 42868), (37, 42925), (41, 42967), (43, 42970), (62, 43123), (90, 43297), (94, 43318),

Gene: Egi03_17 Start: 11152, Stop: 11745, Start Num: 31

Candidate Starts for Egi03_17:

(10, 11011), (Start: 31 @11152 has 33 MA's), (37, 11197), (40, 11236), (61, 11371), (63, 11410), (66, 11425), (68, 11434), (76, 11485), (78, 11494), (97, 11644), (98, 11650), (100, 11671), (102, 11737),

Gene: EmToTheThree_98 Start: 42053, Stop: 42604, Start Num: 18

Candidate Starts for EmToTheThree_98:

(Start: 18 @42053 has 165 MA's), (Start: 34 @42107 has 2 MA's), (37, 42152), (41, 42194), (43, 42197), (62, 42350), (90, 42524), (94, 42545),

Gene: EmmaElysia_94 Start: 39174, Stop: 39725, Start Num: 18

Candidate Starts for EmmaElysia_94:

(Start: 18 @39174 has 165 MA's), (Start: 34 @39228 has 2 MA's), (37, 39273), (41, 39315), (43, 39318), (62, 39471), (90, 39645), (101, 39720),

Gene: Erdmann_96 Start: 40602, Stop: 41153, Start Num: 18

Candidate Starts for Erdmann_96:

(Start: 18 @40602 has 165 MA's), (Start: 34 @40656 has 2 MA's), (37, 40701), (41, 40743), (43, 40746), (62, 40899), (90, 41073), (94, 41094),

Gene: ErnieJ_91 Start: 38629, Stop: 39180, Start Num: 18

Candidate Starts for ErnieJ_91:

(Start: 18 @38629 has 165 MA's), (Start: 34 @38683 has 2 MA's), (37, 38728), (41, 38770), (43, 38773), (62, 38926), (90, 39100), (94, 39121),

Gene: Essence_92 Start: 40161, Stop: 40712, Start Num: 18

Candidate Starts for Essence_92:

(Start: 18 @40161 has 165 MA's), (Start: 34 @40215 has 2 MA's), (37, 40260), (41, 40302), (43, 40305), (62, 40458), (90, 40632), (101, 40707),

Gene: Evamon_17 Start: 11032, Stop: 11610, Start Num: 31

Candidate Starts for Evamon_17:

(Start: 31 @11032 has 33 MA's), (37, 11077), (54, 11221), (65, 11308), (73, 11356), (81, 11386), (84, 11395), (92, 11476), (97, 11509), (98, 11515), (100, 11536), (102, 11602),

Gene: Ewok_96 Start: 40229, Stop: 40780, Start Num: 18

Candidate Starts for Ewok_96:

(Start: 18 @40229 has 165 MA's), (Start: 34 @40283 has 2 MA's), (37, 40328), (41, 40370), (43, 40373), (62, 40526), (90, 40700), (94, 40721),

Gene: Finch_221 Start: 128530, Stop: 129045, Start Num: 32

Candidate Starts for Finch_221:

(Start: 32 @128530 has 2 MA's), (37, 128578), (44, 128641), (48, 128683), (49, 128704), (59, 128761), (67, 128818), (69, 128827), (74, 128854), (83, 128887), (93, 128971), (94, 128980), (95, 128983), (96, 128995),

Gene: Fireball_18 Start: 11155, Stop: 11748, Start Num: 31

Candidate Starts for Fireball_18:

(10, 11014), (Start: 31 @11155 has 33 MA's), (37, 11200), (40, 11239), (61, 11374), (63, 11413), (66, 11428), (68, 11437), (76, 11488), (78, 11497), (97, 11647), (98, 11653), (100, 11674), (102, 11740),

Gene: Fixie_87 Start: 38807, Stop: 39358, Start Num: 18

Candidate Starts for Fixie_87:

(Start: 18 @38807 has 165 MA's), (Start: 34 @38861 has 2 MA's), (37, 38906), (41, 38948), (43, 38951), (62, 39104), (90, 39278), (101, 39353),

Gene: Flabslab_90 Start: 38385, Stop: 38936, Start Num: 18

Candidate Starts for Flabslab_90:

(Start: 18 @38385 has 165 MA's), (Start: 34 @38439 has 2 MA's), (37, 38484), (41, 38526), (43, 38529), (62, 38682), (90, 38856), (94, 38877),

Gene: Fludd_95 Start: 39047, Stop: 39598, Start Num: 18

Candidate Starts for Fludd_95:

(Start: 18 @39047 has 165 MA's), (Start: 34 @39101 has 2 MA's), (37, 39146), (41, 39188), (43, 39191), (62, 39344), (90, 39518), (101, 39593),

Gene: Fongie_93 Start: 40442, Stop: 40993, Start Num: 18

Candidate Starts for Fongie_93:

(Start: 18 @40442 has 165 MA's), (Start: 34 @40496 has 2 MA's), (37, 40541), (41, 40583), (43, 40586), (62, 40739), (90, 40913), (94, 40934),

Gene: FoxtrotP1_95 Start: 41772, Stop: 42323, Start Num: 18

Candidate Starts for FoxtrotP1_95:

(Start: 18 @41772 has 165 MA's), (Start: 34 @41826 has 2 MA's), (37, 41871), (41, 41913), (43, 41916), (62, 42069), (90, 42243), (94, 42264),

Gene: FrayBell_101 Start: 42051, Stop: 42602, Start Num: 18

Candidate Starts for FrayBell_101:

(Start: 18 @42051 has 165 MA's), (Start: 34 @42105 has 2 MA's), (37, 42150), (41, 42192), (43, 42195), (62, 42348), (90, 42522), (94, 42543),

Gene: FudgeTart_95 Start: 39795, Stop: 40346, Start Num: 18

Candidate Starts for FudgeTart_95:

(Start: 18 @39795 has 165 MA's), (Start: 34 @39849 has 2 MA's), (37, 39894), (41, 39936), (43, 39939), (62, 40092), (90, 40266), (94, 40287),

Gene: Fugax_19 Start: 11685, Stop: 12278, Start Num: 31

Candidate Starts for Fugax_19:

(Start: 31 @11685 has 33 MA's), (37, 11730), (40, 11769), (61, 11904), (63, 11943), (66, 11958), (68, 11967), (76, 12018), (78, 12027), (97, 12177), (98, 12183), (100, 12204), (102, 12270),

Gene: Gabriel_97 Start: 39836, Stop: 40555, Start Num: 5

Candidate Starts for Gabriel_97:

(Start: 5 @39836 has 23 MA's), (6, 39848), (14, 39947), (15, 39980), (29, 40046), (37, 40103), (41, 40145), (43, 40148), (62, 40301), (90, 40475), (94, 40496),

Gene: Gamgam_95 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Gamgam_95:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: Gezellig_17 Start: 11155, Stop: 11748, Start Num: 31

Candidate Starts for Gezellig_17:

(10, 11014), (Start: 31 @11155 has 33 MA's), (37, 11200), (40, 11239), (61, 11374), (63, 11413), (66, 11428), (68, 11437), (76, 11488), (78, 11497), (97, 11647), (98, 11653), (100, 11674), (102, 11740),

Gene: Ghost_94 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Ghost_94:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: Gizmo_99 Start: 41749, Stop: 42300, Start Num: 18

Candidate Starts for Gizmo_99:

(Start: 18 @41749 has 165 MA's), (Start: 34 @41803 has 2 MA's), (37, 41848), (41, 41890), (43, 41893), (62, 42046), (90, 42220), (94, 42241),

Gene: GlutenPhree_96 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for GlutenPhree_96:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: GoldenSnow_100 Start: 42050, Stop: 42601, Start Num: 18

Candidate Starts for GoldenSnow_100:

(Start: 18 @42050 has 165 MA's), (Start: 34 @42104 has 2 MA's), (37, 42149), (41, 42191), (43, 42194), (62, 42347), (90, 42521), (94, 42542),

Gene: Grasshills_102 Start: 42658, Stop: 43377, Start Num: 5

Candidate Starts for Grasshills_102:

(Start: 5 @42658 has 23 MA's), (6, 42670), (14, 42769), (15, 42802), (29, 42868), (37, 42925), (41, 42967), (43, 42970), (62, 43123), (90, 43297), (94, 43318),

Gene: Greely_96 Start: 41368, Stop: 41928, Start Num: 18

Candidate Starts for Greely_96:

(Start: 18 @41368 has 165 MA's), (30, 41419), (37, 41467), (40, 41509), (46, 41551), (47, 41557), (51, 41602), (55, 41623), (69, 41713), (72, 41734), (77, 41752), (88, 41836), (101, 41923),

Gene: Grungle_82 Start: 36989, Stop: 37540, Start Num: 18

Candidate Starts for Grungle_82:

(Start: 18 @36989 has 165 MA's), (Start: 34 @37043 has 2 MA's), (37, 37088), (41, 37130), (43, 37133), (62, 37286), (90, 37460), (101, 37535),

Gene: Guwapp_94 Start: 39702, Stop: 40253, Start Num: 18

Candidate Starts for Guwapp_94:

(Start: 18 @39702 has 165 MA's), (Start: 34 @39756 has 2 MA's), (37, 39801), (41, 39843), (43, 39846), (62, 39999), (90, 40173), (101, 40248),

Gene: Halldule_88 Start: 38019, Stop: 38570, Start Num: 18

Candidate Starts for Halldule_88:

(Start: 18 @38019 has 165 MA's), (Start: 34 @38073 has 2 MA's), (37, 38118), (41, 38160), (43, 38163), (62, 38316), (90, 38490), (101, 38565),

Gene: Halo3_18 Start: 11485, Stop: 12063, Start Num: 31

Candidate Starts for Halo3_18:

(Start: 31 @11485 has 33 MA's), (37, 11530), (54, 11674), (65, 11761), (73, 11809), (81, 11839), (84, 11848), (92, 11929), (97, 11962), (98, 11968), (102, 12055),

Gene: HyRo_87 Start: 38778, Stop: 39329, Start Num: 18

Candidate Starts for HyRo_87:

(Start: 18 @38778 has 165 MA's), (Start: 34 @38832 has 2 MA's), (37, 38877), (41, 38919), (43, 38922), (62, 39075), (90, 39249), (94, 39270),

Gene: IkeLoa_89 Start: 38966, Stop: 39685, Start Num: 5

Candidate Starts for IkeLoa_89:

(Start: 5 @38966 has 23 MA's), (6, 38978), (14, 39077), (15, 39110), (29, 39176), (37, 39233), (41, 39275), (43, 39278), (62, 39431), (90, 39605), (94, 39626),

Gene: InigoMontoya_96 Start: 39568, Stop: 40119, Start Num: 18

Candidate Starts for InigoMontoya_96:

(Start: 18 @39568 has 165 MA's), (Start: 34 @39622 has 2 MA's), (37, 39667), (41, 39709), (43, 39712), (62, 39865), (90, 40039), (101, 40114),

Gene: InterFolia_104 Start: 42989, Stop: 43540, Start Num: 18

Candidate Starts for InterFolia_104:

(Start: 18 @42989 has 165 MA's), (Start: 34 @43043 has 2 MA's), (37, 43088), (41, 43130), (43, 43133), (62, 43286), (90, 43460), (94, 43481),

Gene: Iota_89 Start: 39348, Stop: 39899, Start Num: 18

Candidate Starts for Iota_89:

(Start: 18 @39348 has 165 MA's), (Start: 34 @39402 has 2 MA's), (37, 39447), (41, 39489), (43, 39492), (62, 39645), (90, 39819), (101, 39894),

Gene: Issimir_94 Start: 40545, Stop: 41096, Start Num: 18

Candidate Starts for Issimir_94:

(Start: 18 @40545 has 165 MA's), (Start: 34 @40599 has 2 MA's), (37, 40644), (41, 40686), (43, 40689), (62, 40842), (90, 41016), (94, 41037),

Gene: Izajani_95 Start: 40617, Stop: 41336, Start Num: 5

Candidate Starts for Izajani_95:

(Start: 5 @40617 has 23 MA's), (6, 40629), (14, 40728), (15, 40761), (29, 40827), (37, 40884), (41, 40926), (43, 40929), (62, 41082), (90, 41256), (94, 41277),

Gene: JPickles_93 Start: 38838, Stop: 39389, Start Num: 18

Candidate Starts for JPickles_93:

(Start: 18 @38838 has 165 MA's), (Start: 34 @38892 has 2 MA's), (37, 38937), (41, 38979), (43, 38982), (62, 39135), (90, 39309), (101, 39384),

Gene: Jambalaya_17 Start: 10853, Stop: 11401, Start Num: 31

Candidate Starts for Jambalaya_17:

(9, 10712), (Start: 31 @10853 has 33 MA's), (37, 10898), (52, 11021), (54, 11033), (63, 11102), (70, 11150), (92, 11267), (96, 11294), (97, 11300), (98, 11306), (100, 11327), (102, 11393),

Gene: Janiyra_97 Start: 39877, Stop: 40428, Start Num: 18

Candidate Starts for Janiyra_97:

(Start: 18 @39877 has 165 MA's), (Start: 34 @39931 has 2 MA's), (37, 39976), (41, 40018), (43, 40021), (62, 40174), (90, 40348), (94, 40369),

Gene: JayJay_101 Start: 41905, Stop: 42624, Start Num: 5

Candidate Starts for JayJay_101:

(Start: 5 @41905 has 23 MA's), (6, 41917), (14, 42016), (15, 42049), (29, 42115), (37, 42172), (41, 42214), (43, 42217), (62, 42370), (90, 42544), (94, 42565),

Gene: Jaygup_95 Start: 40363, Stop: 40914, Start Num: 18

Candidate Starts for Jaygup_95:

(Start: 18 @40363 has 165 MA's), (Start: 34 @40417 has 2 MA's), (37, 40462), (41, 40504), (43, 40507), (62, 40660), (90, 40834), (101, 40909),

Gene: Jedediah_98 Start: 40863, Stop: 41414, Start Num: 18

Candidate Starts for Jedediah_98:

(Start: 18 @40863 has 165 MA's), (Start: 34 @40917 has 2 MA's), (37, 40962), (41, 41004), (43, 41007), (62, 41160), (90, 41334), (101, 41409),

Gene: Jemmno_95 Start: 40313, Stop: 40864, Start Num: 18

Candidate Starts for Jemmno_95:

(Start: 18 @40313 has 165 MA's), (Start: 34 @40367 has 2 MA's), (37, 40412), (41, 40454), (43, 40457), (62, 40610), (90, 40784), (101, 40859),

Gene: Jessibeth14_94 Start: 40387, Stop: 40938, Start Num: 18

Candidate Starts for Jessibeth14_94:

(Start: 18 @40387 has 165 MA's), (Start: 34 @40441 has 2 MA's), (37, 40486), (41, 40528), (43, 40531), (62, 40684), (90, 40858), (94, 40879),

Gene: Jezreel_95 Start: 40300, Stop: 41019, Start Num: 5

Candidate Starts for Jezreel_95:

(Start: 5 @40300 has 23 MA's), (6, 40312), (14, 40411), (15, 40444), (29, 40510), (37, 40567), (41, 40609), (43, 40612), (62, 40765), (90, 40939), (94, 40960),

Gene: JohnPork_17 Start: 11101, Stop: 11649, Start Num: 31

Candidate Starts for JohnPork_17:

(9, 10960), (Start: 31 @11101 has 33 MA's), (37, 11146), (52, 11269), (54, 11281), (63, 11350), (70, 11398), (92, 11515), (96, 11542), (97, 11548), (98, 11554), (100, 11575), (102, 11641),

Gene: JulietS_88 Start: 37870, Stop: 38421, Start Num: 18

Candidate Starts for JulietS_88:

(Start: 18 @37870 has 165 MA's), (Start: 34 @37924 has 2 MA's), (37, 37969), (41, 38011), (43, 38014), (62, 38167), (90, 38341), (101, 38416),

Gene: JustHall_91 Start: 39515, Stop: 40066, Start Num: 18

Candidate Starts for JustHall_91:

(Start: 18 @39515 has 165 MA's), (Start: 34 @39569 has 2 MA's), (37, 39614), (41, 39656), (43, 39659), (62, 39812), (90, 39986), (101, 40061),

Gene: Kamryn_95 Start: 41126, Stop: 41677, Start Num: 18

Candidate Starts for Kamryn_95:

(Start: 18 @41126 has 165 MA's), (Start: 34 @41180 has 2 MA's), (37, 41225), (41, 41267), (43, 41270), (62, 41423), (90, 41597), (94, 41618),

Gene: Kboogie_98 Start: 39159, Stop: 39710, Start Num: 18

Candidate Starts for Kboogie_98:

(Start: 18 @39159 has 165 MA's), (Start: 34 @39213 has 2 MA's), (37, 39258), (41, 39300), (43, 39303), (62, 39456), (90, 39630), (101, 39705),

Gene: Khaleesi_94 Start: 40349, Stop: 40900, Start Num: 18

Candidate Starts for Khaleesi_94:

(Start: 18 @40349 has 165 MA's), (Start: 34 @40403 has 2 MA's), (37, 40448), (41, 40490), (43, 40493), (62, 40646), (90, 40820), (94, 40841),

Gene: KimmyK_19 Start: 11685, Stop: 12278, Start Num: 31

Candidate Starts for KimmyK_19:

(Start: 31 @11685 has 33 MA's), (37, 11730), (40, 11769), (61, 11904), (63, 11943), (66, 11958), (68, 11967), (76, 12018), (78, 12027), (97, 12177), (98, 12183), (100, 12204), (102, 12270),

Gene: Koguma_91 Start: 38090, Stop: 38641, Start Num: 18

Candidate Starts for Koguma_91:

(Start: 18 @38090 has 165 MA's), (Start: 34 @38144 has 2 MA's), (37, 38189), (41, 38231), (43, 38234), (62, 38387), (90, 38561), (101, 38636),

Gene: LRRHood_89 Start: 39909, Stop: 40460, Start Num: 18

Candidate Starts for LRRHood_89:

(Start: 18 @39909 has 165 MA's), (Start: 34 @39963 has 2 MA's), (37, 40008), (41, 40050), (43, 40053), (62, 40206), (90, 40380), (101, 40455),

Gene: Labradorite_95 Start: 39686, Stop: 40237, Start Num: 18

Candidate Starts for Labradorite_95:

(Start: 18 @39686 has 165 MA's), (Start: 34 @39740 has 2 MA's), (37, 39785), (41, 39827), (43, 39830), (62, 39983), (90, 40157), (94, 40178),

Gene: Latch_95 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Latch_95:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: Lee7_98 Start: 40983, Stop: 41534, Start Num: 18

Candidate Starts for Lee7_98:

(Start: 18 @40983 has 165 MA's), (Start: 34 @41037 has 2 MA's), (37, 41082), (41, 41124), (43, 41127), (62, 41280), (90, 41454), (94, 41475),

Gene: Lethe_94 Start: 40797, Stop: 41348, Start Num: 18

Candidate Starts for Lethe_94:

(Start: 18 @40797 has 165 MA's), (Start: 34 @40851 has 2 MA's), (37, 40896), (41, 40938), (43, 40941), (62, 41094), (90, 41268), (94, 41289),

Gene: LifeSavor_94 Start: 40127, Stop: 40846, Start Num: 5

Candidate Starts for LifeSavor_94:

(Start: 5 @40127 has 23 MA's), (6, 40139), (14, 40238), (15, 40271), (29, 40337), (37, 40394), (41, 40436), (43, 40439), (62, 40592), (90, 40766), (101, 40841),

Gene: LinStu_95 Start: 40973, Stop: 41524, Start Num: 18

Candidate Starts for LinStu_95:

(Start: 18 @40973 has 165 MA's), (Start: 34 @41027 has 2 MA's), (37, 41072), (41, 41114), (43, 41117), (62, 41270), (90, 41444), (94, 41465),

Gene: Loanshark_95 Start: 40602, Stop: 41153, Start Num: 18

Candidate Starts for Loanshark_95:

(Start: 18 @40602 has 165 MA's), (Start: 34 @40656 has 2 MA's), (37, 40701), (41, 40743), (43, 40746), (62, 40899), (90, 41073), (94, 41094),

Gene: LolaVince_97 Start: 41708, Stop: 42259, Start Num: 18

Candidate Starts for LolaVince_97:

(Start: 18 @41708 has 165 MA's), (Start: 34 @41762 has 2 MA's), (37, 41807), (41, 41849), (43, 41852), (62, 42005), (90, 42179), (94, 42200),

Gene: LookingGlass_96 Start: 40710, Stop: 41429, Start Num: 5

Candidate Starts for LookingGlass_96:

(Start: 5 @40710 has 23 MA's), (6, 40722), (14, 40821), (15, 40854), (29, 40920), (37, 40977), (41, 41019), (43, 41022), (62, 41175), (90, 41349), (94, 41370),

Gene: LordLeafolot_101 Start: 42699, Stop: 43250, Start Num: 18

Candidate Starts for LordLeafolot_101:

(Start: 18 @42699 has 165 MA's), (Start: 34 @42753 has 2 MA's), (37, 42798), (41, 42840), (43, 42843), (62, 42996), (90, 43170), (94, 43191),

Gene: Lukilu_86 Start: 40213, Stop: 40764, Start Num: 18

Candidate Starts for Lukilu_86:

(Start: 18 @40213 has 165 MA's), (Start: 34 @40267 has 2 MA's), (37, 40312), (41, 40354), (43, 40357), (62, 40510), (90, 40684), (94, 40705),

Gene: Lunareta_93 Start: 41833, Stop: 42342, Start Num: 29

Candidate Starts for Lunareta_93:

(24, 41818), (27, 41827), (29, 41833), (37, 41890), (41, 41932), (43, 41935), (62, 42088), (90, 42262), (101, 42337),

Gene: Maby2021_95 Start: 40282, Stop: 41001, Start Num: 5

Candidate Starts for Maby2021_95:

(Start: 5 @40282 has 23 MA's), (6, 40294), (14, 40393), (15, 40426), (29, 40492), (37, 40549), (41, 40591), (43, 40594), (62, 40747), (90, 40921), (94, 40942),

Gene: Maguvora_101 Start: 42059, Stop: 42610, Start Num: 18

Candidate Starts for Maguvora_101:

(Start: 18 @42059 has 165 MA's), (Start: 34 @42113 has 2 MA's), (37, 42158), (41, 42200), (43, 42203), (62, 42356), (90, 42530), (94, 42551),

Gene: Mangeria_95 Start: 40564, Stop: 41115, Start Num: 18

Candidate Starts for Mangeria_95:

(Start: 18 @40564 has 165 MA's), (Start: 34 @40618 has 2 MA's), (37, 40663), (41, 40705), (43, 40708), (62, 40861), (90, 41035), (94, 41056),

Gene: Matsumoto_94 Start: 40327, Stop: 40878, Start Num: 18

Candidate Starts for Matsumoto_94:

(Start: 18 @40327 has 165 MA's), (Start: 34 @40381 has 2 MA's), (37, 40426), (41, 40468), (43, 40471), (62, 40624), (90, 40798), (94, 40819),

Gene: Maturis_93 Start: 40723, Stop: 41274, Start Num: 18

Candidate Starts for Maturis_93:

(Start: 18 @40723 has 165 MA's), (Start: 34 @40777 has 2 MA's), (37, 40822), (41, 40864), (43, 40867), (62, 41020), (90, 41194), (94, 41215),

Gene: McGee_96 Start: 38791, Stop: 39342, Start Num: 18

Candidate Starts for McGee_96:

(Start: 18 @38791 has 165 MA's), (Start: 34 @38845 has 2 MA's), (37, 38890), (41, 38932), (43, 38935), (62, 39088), (90, 39262), (101, 39337),

Gene: McWolfish_93 Start: 40007, Stop: 40726, Start Num: 5

Candidate Starts for McWolfish_93:

(Start: 5 @40007 has 23 MA's), (6, 40019), (14, 40118), (15, 40151), (29, 40217), (37, 40274), (41, 40316), (43, 40319), (90, 40646), (94, 40667),

Gene: Megamind_94 Start: 40268, Stop: 40819, Start Num: 18

Candidate Starts for Megamind_94:

(Start: 18 @40268 has 165 MA's), (Start: 34 @40322 has 2 MA's), (37, 40367), (41, 40409), (43, 40412), (62, 40565), (90, 40739), (94, 40760),

Gene: Melpomini_89 Start: 37792, Stop: 38343, Start Num: 18

Candidate Starts for Melpomini_89:

(Start: 18 @37792 has 165 MA's), (Start: 34 @37846 has 2 MA's), (37, 37891), (41, 37933), (43, 37936), (62, 38089), (90, 38263), (94, 38284),

Gene: MikeLiesIn_96 Start: 40615, Stop: 41166, Start Num: 18

Candidate Starts for MikeLiesIn_96:

(Start: 18 @40615 has 165 MA's), (Start: 34 @40669 has 2 MA's), (37, 40714), (41, 40756), (43, 40759), (62, 40912), (90, 41086), (94, 41107),

Gene: Mikro_93 Start: 41525, Stop: 42244, Start Num: 5

Candidate Starts for Mikro_93:

(Start: 5 @41525 has 23 MA's), (6, 41537), (14, 41636), (15, 41669), (29, 41735), (37, 41792), (41, 41834), (43, 41837), (62, 41990), (90, 42164), (94, 42185),

Gene: MoMoMixon_96 Start: 40340, Stop: 40891, Start Num: 18

Candidate Starts for MoMoMixon_96:

(Start: 18 @40340 has 165 MA's), (Start: 34 @40394 has 2 MA's), (37, 40439), (41, 40481), (43, 40484), (62, 40637), (90, 40811), (94, 40832),

Gene: Moby_86 Start: 35867, Stop: 36418, Start Num: 18

Candidate Starts for Moby_86:

(Start: 18 @35867 has 165 MA's), (Start: 34 @35921 has 2 MA's), (37, 35966), (41, 36008), (43, 36011), (62, 36164), (90, 36338), (94, 36359),

Gene: Moiqah_86 Start: 35867, Stop: 36418, Start Num: 18

Candidate Starts for Moiqah_86:

(Start: 18 @35867 has 165 MA's), (Start: 34 @35921 has 2 MA's), (37, 35966), (41, 36008), (43, 36011), (62, 36164), (90, 36338), (94, 36359),

Gene: Momo_94 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Momo_94:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: Montpel_93 Start: 41833, Stop: 42342, Start Num: 29

Candidate Starts for Montpel_93:

(24, 41818), (27, 41827), (29, 41833), (37, 41890), (41, 41932), (43, 41935), (62, 42088), (90, 42262), (101, 42337),

Gene: Morizzled23_95 Start: 39312, Stop: 39863, Start Num: 18

Candidate Starts for Morizzled23_95:

(Start: 18 @39312 has 165 MA's), (Start: 34 @39366 has 2 MA's), (37, 39411), (41, 39453), (43, 39456), (62, 39609), (90, 39783), (94, 39804),

Gene: Mutzi_19 Start: 11448, Stop: 12002, Start Num: 31

Candidate Starts for Mutzi_19:

(8, 11277), (Start: 31 @11448 has 33 MA's), (37, 11493), (54, 11628), (63, 11700), (82, 11778), (97, 11901), (98, 11907), (102, 11994),

Gene: Myrna_94 Start: 42145, Stop: 42711, Start Num: 18

Candidate Starts for Myrna_94:

(Start: 18 @42145 has 165 MA's), (19, 42148), (21, 42157), (23, 42175), (30, 42202), (37, 42250), (46, 42334), (47, 42340), (55, 42406), (59, 42439), (72, 42517), (77, 42535), (86, 42586),

Gene: Naija_94 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Naija_94:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: Napoleon13_91 Start: 38410, Stop: 38961, Start Num: 18

Candidate Starts for Napoleon13_91:

(Start: 18 @38410 has 165 MA's), (Start: 34 @38464 has 2 MA's), (37, 38509), (41, 38551), (43, 38554), (62, 38707), (90, 38881), (94, 38902),

Gene: Nappy_97 Start: 41165, Stop: 41884, Start Num: 5

Candidate Starts for Nappy_97:

(Start: 5 @41165 has 23 MA's), (6, 41177), (14, 41276), (15, 41309), (29, 41375), (37, 41432), (41, 41474), (43, 41477), (62, 41630), (90, 41804), (101, 41879),

Gene: Naval22_103 Start: 42206, Stop: 42757, Start Num: 18

Candidate Starts for Naval22_103:

(Start: 18 @42206 has 165 MA's), (Start: 34 @42260 has 2 MA's), (37, 42305), (41, 42347), (43, 42350), (62, 42503), (90, 42677), (94, 42698),

Gene: NedWong_96 Start: 40602, Stop: 41153, Start Num: 18

Candidate Starts for NedWong_96:

(Start: 18 @40602 has 165 MA's), (Start: 34 @40656 has 2 MA's), (37, 40701), (41, 40743), (43, 40746), (62, 40899), (90, 41073), (94, 41094),

Gene: Ngannou_91 Start: 38589, Stop: 39140, Start Num: 18

Candidate Starts for Ngannou_91:

(Start: 18 @38589 has 165 MA's), (Start: 34 @38643 has 2 MA's), (37, 38688), (41, 38730), (43, 38733), (62, 38886), (90, 39060), (101, 39135),

Gene: Nidhogg_96 Start: 40455, Stop: 41174, Start Num: 5

Candidate Starts for Nidhogg_96:

(Start: 5 @40455 has 23 MA's), (6, 40467), (14, 40566), (15, 40599), (29, 40665), (37, 40722), (41, 40764), (43, 40767), (62, 40920), (90, 41094), (94, 41115),

Gene: NoodleTree_103 Start: 41632, Stop: 42351, Start Num: 5

Candidate Starts for NoodleTree_103:

(Start: 5 @41632 has 23 MA's), (6, 41644), (14, 41743), (15, 41776), (29, 41842), (37, 41899), (41, 41941), (43, 41944), (62, 42097), (90, 42271), (94, 42292),

Gene: Norm_96 Start: 41375, Stop: 41926, Start Num: 18

Candidate Starts for Norm_96:

(Start: 18 @41375 has 165 MA's), (Start: 34 @41429 has 2 MA's), (37, 41474), (41, 41516), (43, 41519), (62, 41672), (90, 41846), (94, 41867),

Gene: Nubi_17 Start: 11052, Stop: 11630, Start Num: 31

Candidate Starts for Nubi_17:

(Start: 31 @11052 has 33 MA's), (37, 11097), (54, 11241), (65, 11328), (73, 11376), (81, 11406), (84, 11415), (92, 11496), (97, 11529), (98, 11535), (100, 11556), (102, 11622),

Gene: NuevoMundo_101 Start: 42562, Stop: 43281, Start Num: 5

Candidate Starts for NuevoMundo_101:

(Start: 5 @42562 has 23 MA's), (6, 42574), (14, 42673), (15, 42706), (29, 42772), (37, 42829), (41, 42871), (43, 42874), (62, 43027), (90, 43201), (94, 43222),

Gene: OrediggerDelux_98 Start: 41372, Stop: 41923, Start Num: 18

Candidate Starts for OrediggerDelux_98:

(Start: 18 @41372 has 165 MA's), (Start: 34 @41426 has 2 MA's), (37, 41471), (41, 41513), (43, 41516), (62, 41669), (90, 41843), (94, 41864),

Gene: ParkTD_96 Start: 40598, Stop: 41149, Start Num: 18

Candidate Starts for ParkTD_96:

(Start: 18 @40598 has 165 MA's), (Start: 34 @40652 has 2 MA's), (37, 40697), (41, 40739), (43, 40742), (62, 40895), (90, 41069), (94, 41090),

Gene: Patter_95 Start: 39624, Stop: 40175, Start Num: 18

Candidate Starts for Patter_95:

(Start: 18 @39624 has 165 MA's), (Start: 34 @39678 has 2 MA's), (37, 39723), (41, 39765), (43, 39768), (62, 39921), (90, 40095), (101, 40170),

Gene: Phabba_99 Start: 41176, Stop: 41709, Start Num: 18

Candidate Starts for Phabba_99:

(Start: 18 @41176 has 165 MA's), (26, 41191), (30, 41200), (37, 41248), (40, 41290), (46, 41332), (47, 41338), (55, 41404), (69, 41494), (72, 41515), (77, 41533), (86, 41584), (88, 41617), (101, 41704),

Gene: PharkleMinkus_99 Start: 42051, Stop: 42602, Start Num: 18

Candidate Starts for PharkleMinkus_99:

(Start: 18 @42051 has 165 MA's), (Start: 34 @42105 has 2 MA's), (37, 42150), (41, 42192), (43, 42195), (62, 42348), (90, 42522), (94, 42543),

Gene: Phlegm_97 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Phlegm_97:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: Phlop_17 Start: 11155, Stop: 11703, Start Num: 31

Candidate Starts for Phlop_17:

(9, 11014), (Start: 31 @11155 has 33 MA's), (37, 11200), (52, 11323), (54, 11335), (63, 11404), (70, 11452), (92, 11569), (96, 11596), (97, 11602), (98, 11608), (100, 11629), (102, 11695),

Gene: Phox_92 Start: 40470, Stop: 41021, Start Num: 18

Candidate Starts for Phox_92:

(Start: 18 @40470 has 165 MA's), (Start: 34 @40524 has 2 MA's), (37, 40569), (41, 40611), (43, 40614), (62, 40767), (90, 40941), (94, 40962),

Gene: Phrappuccino_50 Start: 29802, Stop: 30395, Start Num: 17

Candidate Starts for Phrappuccino_50:

(10, 29724), (Start: 17 @29802 has 2 MA's), (25, 29844), (37, 29919), (40, 29958), (43, 29964), (50, 30048), (56, 30078), (58, 30093), (60, 30108), (64, 30153), (67, 30168), (77, 30216), (79, 30225), (85, 30249), (87, 30282), (88, 30300),

Gene: Phusco_95 Start: 40372, Stop: 40923, Start Num: 18

Candidate Starts for Phusco_95:

(Start: 18 @40372 has 165 MA's), (Start: 34 @40426 has 2 MA's), (37, 40471), (41, 40513), (43, 40516), (62, 40669), (90, 40843), (101, 40918),

Gene: Pier_99 Start: 41603, Stop: 42154, Start Num: 18

Candidate Starts for Pier_99:

(Start: 18 @41603 has 165 MA's), (Start: 34 @41657 has 2 MA's), (37, 41702), (41, 41744), (43, 41747), (62, 41900), (90, 42074), (94, 42095),

Gene: PinkCoffee_19 Start: 11694, Stop: 12287, Start Num: 31

Candidate Starts for PinkCoffee_19:

(Start: 31 @11694 has 33 MA's), (37, 11739), (40, 11778), (61, 11913), (63, 11952), (66, 11967), (68, 11976), (76, 12027), (78, 12036), (97, 12186), (98, 12192), (100, 12213), (102, 12279),

Gene: Pinkcreek_86 Start: 37556, Stop: 38107, Start Num: 18

Candidate Starts for Pinkcreek_86:

(Start: 18 @37556 has 165 MA's), (Start: 34 @37610 has 2 MA's), (37, 37655), (41, 37697), (43, 37700), (62, 37853), (90, 38027), (94, 38048),

Gene: Pio_99 Start: 42335, Stop: 42886, Start Num: 18

Candidate Starts for Pio_99:

(Start: 18 @42335 has 165 MA's), (Start: 34 @42389 has 2 MA's), (37, 42434), (38, 42461), (41, 42476), (43, 42479), (62, 42632), (90, 42806), (94, 42827),

Gene: Pivoine_94 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for Pivoine_94:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: Pleione_98 Start: 40601, Stop: 41152, Start Num: 18

Candidate Starts for Pleione_98:

(Start: 18 @40601 has 165 MA's), (Start: 34 @40655 has 2 MA's), (37, 40700), (41, 40742), (43, 40745), (62, 40898), (90, 41072), (94, 41093),

Gene: Portcullis_17 Start: 11101, Stop: 11649, Start Num: 31

Candidate Starts for Portcullis_17:

(9, 10960), (Start: 31 @11101 has 33 MA's), (37, 11146), (52, 11269), (54, 11281), (63, 11350), (70, 11398), (92, 11515), (96, 11542), (97, 11548), (98, 11554), (100, 11575), (102, 11641),

Gene: Primadonna_89 Start: 39493, Stop: 40044, Start Num: 18

Candidate Starts for Primadonna_89:

(Start: 18 @39493 has 165 MA's), (Start: 34 @39547 has 2 MA's), (37, 39592), (41, 39634), (43, 39637), (62, 39790), (90, 39964), (94, 39985),

Gene: Puhon_100 Start: 42007, Stop: 42558, Start Num: 18

Candidate Starts for Puhon_100:

(Start: 18 @42007 has 165 MA's), (Start: 34 @42061 has 2 MA's), (37, 42106), (41, 42148), (43, 42151), (62, 42304), (90, 42478), (94, 42499),

Gene: PullumCavea_17 Start: 11155, Stop: 11703, Start Num: 31

Candidate Starts for PullumCavea_17:

(9, 11014), (Start: 31 @11155 has 33 MA's), (37, 11200), (52, 11323), (54, 11335), (63, 11404), (70, 11452), (92, 11569), (96, 11596), (97, 11602), (98, 11608), (100, 11629), (102, 11695),

Gene: Pupper_92 Start: 40634, Stop: 41167, Start Num: 28

Candidate Starts for Pupper_92:

(1, 40238), (2, 40244), (3, 40250), (4, 40292), (16, 40571), (Start: 28 @40634 has 4 MA's), (33, 40652), (37, 40703), (39, 40739), (43, 40748), (45, 40775), (46, 40781), (58, 40877), (59, 40889), (69, 40943), (74, 40976), (89, 41084), (91, 41090),

Gene: Pupusa_100 Start: 42418, Stop: 42969, Start Num: 18

Candidate Starts for Pupusa_100:

(Start: 18 @42418 has 165 MA's), (Start: 34 @42472 has 2 MA's), (37, 42517), (41, 42559), (43, 42562), (62, 42715), (90, 42889), (101, 42964),

Gene: PurduePete_95 Start: 40645, Stop: 41364, Start Num: 5

Candidate Starts for PurduePete_95:

(Start: 5 @40645 has 23 MA's), (6, 40657), (14, 40756), (15, 40789), (29, 40855), (37, 40912), (41, 40954), (43, 40957), (90, 41284), (94, 41305),

Gene: QBert_89 Start: 40102, Stop: 40653, Start Num: 18

Candidate Starts for QBert_89:

(Start: 18 @40102 has 165 MA's), (Start: 34 @40156 has 2 MA's), (37, 40201), (41, 40243), (43, 40246), (62, 40399), (90, 40573), (94, 40594),

Gene: Quasimodo_95 Start: 40137, Stop: 40688, Start Num: 18

Candidate Starts for Quasimodo_95:

(Start: 18 @40137 has 165 MA's), (Start: 34 @40191 has 2 MA's), (37, 40236), (41, 40278), (43, 40281), (62, 40434), (90, 40608), (101, 40683),

Gene: Rabinovish_92 Start: 40443, Stop: 40994, Start Num: 18

Candidate Starts for Rabinovish_92:

(Start: 18 @40443 has 165 MA's), (Start: 34 @40497 has 2 MA's), (37, 40542), (41, 40584), (43, 40587), (62, 40740), (90, 40914), (94, 40935),

Gene: Rahel_94 Start: 39964, Stop: 40515, Start Num: 18

Candidate Starts for Rahel_94:

(Start: 18 @39964 has 165 MA's), (Start: 34 @40018 has 2 MA's), (37, 40063), (41, 40105), (43, 40108), (62, 40261), (90, 40435), (101, 40510),

Gene: RedWattleHog_19 Start: 22279, Stop: 22800, Start Num: 32

Candidate Starts for RedWattleHog_19:

(Start: 32 @22279 has 2 MA's), (36, 22288), (37, 22327), (40, 22366), (42, 22372), (55, 22480), (57, 22498), (60, 22516), (83, 22627), (87, 22672), (88, 22690),

Gene: Rizal_92 Start: 39519, Stop: 40070, Start Num: 18

Candidate Starts for Rizal_92:

(Start: 18 @39519 has 165 MA's), (Start: 34 @39573 has 2 MA's), (37, 39618), (41, 39660), (43, 39663), (62, 39816), (90, 39990), (94, 40011),

Gene: RoMag_90 Start: 39961, Stop: 40512, Start Num: 18

Candidate Starts for RoMag_90:

(Start: 18 @39961 has 165 MA's), (Start: 34 @40015 has 2 MA's), (37, 40060), (41, 40102), (43, 40105), (62, 40258), (90, 40432), (94, 40453),

Gene: Rocha_94 Start: 40044, Stop: 40595, Start Num: 18

Candidate Starts for Rocha_94:

(Start: 18 @40044 has 165 MA's), (Start: 34 @40098 has 2 MA's), (37, 40143), (41, 40185), (43, 40188), (62, 40341), (90, 40515), (94, 40536),

Gene: RogerDodger_20 Start: 11921, Stop: 12499, Start Num: 31

Candidate Starts for RogerDodger_20:

(Start: 31 @11921 has 33 MA's), (37, 11966), (54, 12110), (65, 12197), (73, 12245), (81, 12275), (84, 12284), (92, 12365), (97, 12398), (98, 12404), (100, 12425), (102, 12491),

Gene: Ronan_88 Start: 37408, Stop: 37959, Start Num: 18

Candidate Starts for Ronan_88:

(Start: 18 @37408 has 165 MA's), (Start: 34 @37462 has 2 MA's), (37, 37507), (41, 37549), (43, 37552), (62, 37705), (90, 37879), (101, 37954),

Gene: Roots515_94 Start: 40795, Stop: 41346, Start Num: 18

Candidate Starts for Roots515_94:

(Start: 18 @40795 has 165 MA's), (Start: 34 @40849 has 2 MA's), (37, 40894), (41, 40936), (43, 40939), (62, 41092), (90, 41266), (94, 41287),

Gene: SCentae_91 Start: 40780, Stop: 41313, Start Num: 28

Candidate Starts for SCentae_91:

(1, 40384), (2, 40390), (3, 40396), (4, 40438), (16, 40717), (Start: 28 @40780 has 4 MA's), (33, 40798), (37, 40849), (39, 40885), (43, 40894), (45, 40921), (46, 40927), (58, 41023), (59, 41035), (69, 41089), (74, 41122), (89, 41230), (91, 41236),

Gene: SVoro_93 Start: 40595, Stop: 41314, Start Num: 5

Candidate Starts for SVoro_93:

(Start: 5 @40595 has 23 MA's), (6, 40607), (14, 40706), (15, 40739), (29, 40805), (37, 40862), (41, 40904), (43, 40907), (62, 41060), (90, 41234), (94, 41255),

Gene: Salacia_99 Start: 40715, Stop: 41434, Start Num: 5

Candidate Starts for Salacia_99:

(Start: 5 @40715 has 23 MA's), (6, 40727), (14, 40826), (15, 40859), (29, 40925), (37, 40982), (41, 41024), (43, 41027), (62, 41180), (90, 41354), (94, 41375),

Gene: Salvador_17 Start: 11030, Stop: 11608, Start Num: 31

Candidate Starts for Salvador_17:

(Start: 31 @11030 has 33 MA's), (37, 11075), (54, 11219), (65, 11306), (73, 11354), (81, 11384), (84, 11393), (92, 11474), (97, 11507), (98, 11513), (100, 11534), (102, 11600),

Gene: Sauce_95 Start: 39456, Stop: 40007, Start Num: 18

Candidate Starts for Sauce_95:

(Start: 18 @39456 has 165 MA's), (Start: 34 @39510 has 2 MA's), (37, 39555), (41, 39597), (43, 39600), (62, 39753), (90, 39927), (101, 40002),

Gene: Savbucketdawg_17 Start: 10853, Stop: 11401, Start Num: 31

Candidate Starts for Savbucketdawg_17:

(9, 10712), (Start: 31 @10853 has 33 MA's), (37, 10898), (52, 11021), (54, 11033), (63, 11102), (70, 11150), (92, 11267), (96, 11294), (97, 11300), (98, 11306), (100, 11327), (102, 11393),

Gene: ScoobyDoobyDoo_88 Start: 38680, Stop: 39309, Start Num: 13

Candidate Starts for ScoobyDoobyDoo_88:

(Start: 13 @38680 has 1 MA's), (Start: 17 @38743 has 2 MA's), (20, 38752), (22, 38767), (30, 38800), (37, 38848), (40, 38890), (41, 38893), (46, 38932), (47, 38938), (72, 39115), (77, 39133), (80, 39145), (95, 39253),

Gene: ScottMcG_92 Start: 39587, Stop: 40138, Start Num: 18

Candidate Starts for ScottMcG_92:

(Start: 18 @39587 has 165 MA's), (Start: 34 @39641 has 2 MA's), (37, 39686), (41, 39728), (43, 39731), (62, 39884), (90, 40058), (94, 40079),

Gene: Sebata_96 Start: 41092, Stop: 41643, Start Num: 18

Candidate Starts for Sebata_96:

(Start: 18 @41092 has 165 MA's), (Start: 34 @41146 has 2 MA's), (37, 41191), (41, 41233), (43, 41236), (62, 41389), (90, 41563), (101, 41638),

Gene: Sendy_18 Start: 11152, Stop: 11745, Start Num: 31

Candidate Starts for Sendy_18:

(10, 11011), (Start: 31 @11152 has 33 MA's), (37, 11197), (40, 11236), (61, 11371), (63, 11410), (66, 11425), (68, 11434), (76, 11485), (78, 11494), (97, 11644), (98, 11650), (100, 11671), (102, 11737),

Gene: Settecandela_50 Start: 29802, Stop: 30395, Start Num: 17

Candidate Starts for Settecandela_50:

(10, 29724), (Start: 17 @29802 has 2 MA's), (25, 29844), (37, 29919), (40, 29958), (43, 29964), (50, 30048), (56, 30078), (58, 30093), (60, 30108), (64, 30153), (67, 30168), (77, 30216), (79, 30225), (85, 30249), (87, 30282), (88, 30300),

Gene: Shaqnato_87 Start: 38331, Stop: 38882, Start Num: 18

Candidate Starts for Shaqnato_87:

(Start: 18 @38331 has 165 MA's), (Start: 34 @38385 has 2 MA's), (37, 38430), (41, 38472), (43, 38475), (62, 38628), (90, 38802), (101, 38877),

Gene: SharkTale_17 Start: 11756, Stop: 12349, Start Num: 31

Candidate Starts for SharkTale_17:

(8, 11582), (Start: 31 @11756 has 33 MA's), (37, 11801), (40, 11840), (63, 12014), (66, 12029), (68, 12038), (76, 12089), (97, 12248), (98, 12254), (100, 12275), (102, 12341),

Gene: Shelob_97 Start: 41594, Stop: 42145, Start Num: 18

Candidate Starts for Shelob_97:

(Start: 18 @41594 has 165 MA's), (Start: 34 @41648 has 2 MA's), (37, 41693), (41, 41735), (43, 41738), (62, 41891), (90, 42065), (94, 42086),

Gene: ShiaLabeouf_95 Start: 40803, Stop: 41354, Start Num: 18

Candidate Starts for ShiaLabeouf_95:

(Start: 18 @40803 has 165 MA's), (Start: 34 @40857 has 2 MA's), (37, 40902), (41, 40944), (43, 40947), (62, 41100), (90, 41274), (94, 41295),

Gene: Shifa_84 Start: 38045, Stop: 38596, Start Num: 18

Candidate Starts for Shifa_84:

(Start: 18 @38045 has 165 MA's), (Start: 34 @38099 has 2 MA's), (37, 38144), (41, 38186), (43, 38189), (62, 38342), (90, 38516), (94, 38537),

Gene: Shinji_17 Start: 11042, Stop: 11590, Start Num: 31

Candidate Starts for Shinji_17:

(9, 10901), (Start: 31 @11042 has 33 MA's), (37, 11087), (52, 11210), (54, 11222), (63, 11291), (70, 11339), (92, 11456), (96, 11483), (97, 11489), (98, 11495), (100, 11516), (102, 11582),

Gene: Shnickers_95 Start: 40363, Stop: 40914, Start Num: 18

Candidate Starts for Shnickers_95:

(Start: 18 @40363 has 165 MA's), (Start: 34 @40417 has 2 MA's), (37, 40462), (41, 40504), (43, 40507), (62, 40660), (90, 40834), (101, 40909),

Gene: Shrimp_95 Start: 40606, Stop: 41157, Start Num: 18

Candidate Starts for Shrimp_95:

(Start: 18 @40606 has 165 MA's), (Start: 34 @40660 has 2 MA's), (37, 40705), (41, 40747), (43, 40750), (62, 40903), (90, 41077), (94, 41098),

Gene: SilverDipper_96 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for SilverDipper_96:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: SiwenD96_95 Start: 40652, Stop: 41371, Start Num: 5

Candidate Starts for SiwenD96_95:

(Start: 5 @40652 has 23 MA's), (6, 40664), (14, 40763), (15, 40796), (29, 40862), (37, 40919), (41, 40961), (43, 40964), (62, 41117), (90, 41291), (101, 41366),

Gene: Sixsevenium_18 Start: 10908, Stop: 11501, Start Num: 31

Candidate Starts for Sixsevenium_18:

(Start: 31 @10908 has 33 MA's), (37, 10953), (40, 10992), (61, 11127), (63, 11166), (66, 11181), (68, 11190), (76, 11241), (97, 11400), (98, 11406), (100, 11427), (102, 11493),

Gene: Skog_155 Start: 70252, Stop: 70785, Start Num: 28

Candidate Starts for Skog_155:

(16, 70189), (Start: 28 @70252 has 4 MA's), (33, 70270), (Start: 34 @70276 has 2 MA's), (37, 70321), (39, 70357), (43, 70366), (46, 70399), (58, 70495), (59, 70507), (69, 70561), (74, 70594), (75, 70597), (89, 70702),

Gene: SmallFry_95 Start: 39558, Stop: 40109, Start Num: 18

Candidate Starts for SmallFry_95:

(Start: 18 @39558 has 165 MA's), (Start: 34 @39612 has 2 MA's), (37, 39657), (41, 39699), (43, 39702), (62, 39855), (90, 40029), (101, 40104),

Gene: SmokingBunny_17 Start: 11030, Stop: 11608, Start Num: 31

Candidate Starts for SmokingBunny_17:

(Start: 31 @11030 has 33 MA's), (37, 11075), (54, 11219), (65, 11306), (73, 11354), (81, 11384), (84, 11393), (92, 11474), (97, 11507), (98, 11513), (100, 11534), (102, 11600),

Gene: SoilZilla_91 Start: 39692, Stop: 40243, Start Num: 18

Candidate Starts for SoilZilla_91:

(Start: 18 @39692 has 165 MA's), (Start: 34 @39746 has 2 MA's), (37, 39791), (41, 39833), (43, 39836), (62, 39989), (90, 40163), (94, 40184),

Gene: Spec_92 Start: 40128, Stop: 40679, Start Num: 18

Candidate Starts for Spec_92:

(Start: 18 @40128 has 165 MA's), (Start: 34 @40182 has 2 MA's), (37, 40227), (41, 40269), (43, 40272), (62, 40425), (90, 40599), (101, 40674),

Gene: Sprinklers_90 Start: 38828, Stop: 39379, Start Num: 18

Candidate Starts for Sprinklers_90:

(Start: 18 @38828 has 165 MA's), (Start: 34 @38882 has 2 MA's), (37, 38927), (41, 38969), (43, 38972), (62, 39125), (90, 39299), (101, 39374),

Gene: Spud_95 Start: 40549, Stop: 41100, Start Num: 18

Candidate Starts for Spud_95:

(Start: 18 @40549 has 165 MA's), (Start: 34 @40603 has 2 MA's), (37, 40648), (41, 40690), (43, 40693), (62, 40846), (90, 41020), (94, 41041),

Gene: SrishMeg2525_94 Start: 40709, Stop: 41260, Start Num: 18

Candidate Starts for SrishMeg2525_94:

(Start: 18 @40709 has 165 MA's), (Start: 34 @40763 has 2 MA's), (37, 40808), (41, 40850), (43, 40853), (62, 41006), (90, 41180), (94, 41201),

Gene: StephanieG_94 Start: 41418, Stop: 41969, Start Num: 18

Candidate Starts for StephanieG_94:

(Start: 18 @41418 has 165 MA's), (Start: 34 @41472 has 2 MA's), (37, 41517), (41, 41559), (43, 41562), (62, 41715), (90, 41889), (94, 41910),

Gene: Stormageddon_17 Start: 21089, Stop: 21607, Start Num: 34

Candidate Starts for Stormageddon_17:

(12, 20954), (Start: 34 @21089 has 2 MA's), (37, 21134), (40, 21173), (42, 21179), (55, 21287), (60, 21323), (87, 21479),

Gene: Stubby_88 Start: 38634, Stop: 39185, Start Num: 18

Candidate Starts for Stubby_88:

(Start: 18 @38634 has 165 MA's), (Start: 34 @38688 has 2 MA's), (37, 38733), (41, 38775), (43, 38778), (62, 38931), (90, 39105), (94, 39126),

Gene: StubbySaigey_97 Start: 38895, Stop: 39446, Start Num: 18

Candidate Starts for StubbySaigey_97:

(Start: 18 @38895 has 165 MA's), (Start: 34 @38949 has 2 MA's), (37, 38994), (41, 39036), (43, 39039), (62, 39192), (90, 39366), (101, 39441),

Gene: Substance289_92 Start: 39881, Stop: 40432, Start Num: 18

Candidate Starts for Substance289_92:

(Start: 18 @39881 has 165 MA's), (Start: 34 @39935 has 2 MA's), (37, 39980), (41, 40022), (43, 40025), (62, 40178), (90, 40352), (101, 40427),

Gene: Tainan_100 Start: 41992, Stop: 42543, Start Num: 18

Candidate Starts for Tainan_100:

(Start: 18 @41992 has 165 MA's), (Start: 34 @42046 has 2 MA's), (37, 42091), (41, 42133), (43, 42136), (62, 42289), (90, 42463), (94, 42484),

Gene: TillyBobJoe_17 Start: 10856, Stop: 11404, Start Num: 31

Candidate Starts for TillyBobJoe_17:

(9, 10715), (Start: 31 @10856 has 33 MA's), (37, 10901), (52, 11024), (54, 11036), (63, 11105), (70, 11153), (92, 11270), (96, 11297), (97, 11303), (98, 11309), (100, 11330), (102, 11396),

Gene: TinyTim_95 Start: 40602, Stop: 41153, Start Num: 18

Candidate Starts for TinyTim_95:

(Start: 18 @40602 has 165 MA's), (Start: 34 @40656 has 2 MA's), (37, 40701), (41, 40743), (43, 40746), (62, 40899), (90, 41073), (94, 41094),

Gene: Togo_17 Start: 11030, Stop: 11608, Start Num: 31

Candidate Starts for Togo_17:

(Start: 31 @11030 has 33 MA's), (37, 11075), (54, 11219), (65, 11306), (73, 11354), (81, 11384), (84, 11393), (92, 11474), (97, 11507), (98, 11513), (100, 11534), (102, 11600),

Gene: Tonenili_109 Start: 44609, Stop: 45328, Start Num: 5

Candidate Starts for Tonenili_109:

(Start: 5 @44609 has 23 MA's), (6, 44621), (14, 44720), (15, 44753), (29, 44819), (37, 44876), (41, 44918), (43, 44921), (62, 45074), (71, 45134), (90, 45248),

Gene: Tortoise16_93 Start: 40459, Stop: 41178, Start Num: 5

Candidate Starts for Tortoise16_93:

(Start: 5 @40459 has 23 MA's), (6, 40471), (14, 40570), (15, 40603), (29, 40669), (37, 40726), (41, 40768), (43, 40771), (62, 40924), (90, 41098), (94, 41119),

Gene: Trinitium_91 Start: 38633, Stop: 39184, Start Num: 18

Candidate Starts for Trinitium_91:

(Start: 18 @38633 has 165 MA's), (Start: 34 @38687 has 2 MA's), (37, 38732), (41, 38774), (43, 38777), (62, 38930), (90, 39104), (101, 39179),

Gene: Turret_90 Start: 38299, Stop: 38850, Start Num: 18

Candidate Starts for Turret_90:

(Start: 18 @38299 has 165 MA's), (Start: 34 @38353 has 2 MA's), (37, 38398), (41, 38440), (43, 38443), (62, 38596), (90, 38770), (94, 38791),

Gene: Twister6_19 Start: 11468, Stop: 12046, Start Num: 31

Candidate Starts for Twister6_19:

(Start: 31 @11468 has 33 MA's), (37, 11513), (54, 11657), (65, 11744), (73, 11792), (81, 11822), (84, 11831), (92, 11912), (97, 11945), (98, 11951), (100, 11972), (102, 12038),

Gene: Tyke_97 Start: 42168, Stop: 42719, Start Num: 18

Candidate Starts for Tyke_97:

(Start: 18 @42168 has 165 MA's), (Start: 34 @42222 has 2 MA's), (37, 42267), (38, 42294), (41, 42309), (43, 42312), (62, 42465), (90, 42639), (94, 42660),

Gene: Valary_20 Start: 11921, Stop: 12499, Start Num: 31

Candidate Starts for Valary_20:

(Start: 31 @11921 has 33 MA's), (37, 11966), (54, 12110), (65, 12197), (73, 12245), (81, 12275), (84, 12284), (92, 12365), (97, 12398), (98, 12404), (100, 12425), (102, 12491),

Gene: ValleyTerrace_95 Start: 39607, Stop: 40158, Start Num: 18

Candidate Starts for ValleyTerrace_95:

(Start: 18 @39607 has 165 MA's), (Start: 34 @39661 has 2 MA's), (37, 39706), (41, 39748), (43, 39751), (62, 39904), (90, 40078), (101, 40153),

Gene: VanDeWege_20 Start: 11849, Stop: 12427, Start Num: 31

Candidate Starts for VanDeWege_20:

(Start: 31 @11849 has 33 MA's), (37, 11894), (54, 12038), (65, 12125), (73, 12173), (81, 12203), (84, 12212), (92, 12293), (97, 12326), (98, 12332), (100, 12353), (102, 12419),

Gene: Vortrix_110 Start: 44015, Stop: 44734, Start Num: 5

Candidate Starts for Vortrix_110:

(Start: 5 @44015 has 23 MA's), (6, 44027), (11, 44096), (14, 44126), (15, 44159), (29, 44225), (37, 44282), (41, 44324), (43, 44327), (62, 44480), (90, 44654),

Gene: Wally_94 Start: 39157, Stop: 39708, Start Num: 18

Candidate Starts for Wally_94:

(Start: 18 @39157 has 165 MA's), (Start: 34 @39211 has 2 MA's), (37, 39256), (41, 39298), (43, 39301), (62, 39454), (90, 39628), (94, 39649),

Gene: Willis_96 Start: 40497, Stop: 41048, Start Num: 18

Candidate Starts for Willis_96:

(Start: 18 @40497 has 165 MA's), (Start: 34 @40551 has 2 MA's), (37, 40596), (41, 40638), (43, 40641), (62, 40794), (90, 40968), (94, 40989),

Gene: Wizard_17 Start: 11155, Stop: 11748, Start Num: 31

Candidate Starts for Wizard_17:

(10, 11014), (Start: 31 @11155 has 33 MA's), (37, 11200), (40, 11239), (61, 11374), (63, 11413), (66, 11428), (68, 11437), (76, 11488), (78, 11497), (97, 11647), (98, 11653), (100, 11674), (102, 11740),

Gene: Yassified_91 Start: 38866, Stop: 39417, Start Num: 18

Candidate Starts for Yassified_91:

(Start: 18 @38866 has 165 MA's), (Start: 34 @38920 has 2 MA's), (37, 38965), (41, 39007), (43, 39010), (62, 39163), (90, 39337), (101, 39412),

Gene: YemiJoy2021_96 Start: 40599, Stop: 41150, Start Num: 18

Candidate Starts for YemiJoy2021_96:

(Start: 18 @40599 has 165 MA's), (Start: 34 @40653 has 2 MA's), (37, 40698), (41, 40740), (43, 40743), (62, 40896), (90, 41070), (94, 41091),

Gene: YoungMoneyMata_95 Start: 39358, Stop: 39909, Start Num: 18

Candidate Starts for YoungMoneyMata_95:

(Start: 18 @39358 has 165 MA's), (Start: 34 @39412 has 2 MA's), (37, 39457), (41, 39499), (43, 39502), (62, 39655), (90, 39829), (101, 39904),

Gene: Yucca_95 Start: 40521, Stop: 41072, Start Num: 18

Candidate Starts for Yucca_95:

(Start: 18 @40521 has 165 MA's), (Start: 34 @40575 has 2 MA's), (37, 40620), (41, 40662), (43, 40665), (62, 40818), (90, 40992), (94, 41013),

Gene: YungMoney_19 Start: 12507, Stop: 13058, Start Num: 31

Candidate Starts for YungMoney_19:

(8, 12336), (Start: 31 @12507 has 33 MA's), (37, 12552), (54, 12687), (63, 12759), (70, 12807), (92, 12924), (97, 12957), (98, 12963), (102, 13050),

Gene: Zalkecks_96 Start: 40287, Stop: 40838, Start Num: 18

Candidate Starts for Zalkecks_96:

(Start: 18 @40287 has 165 MA's), (Start: 34 @40341 has 2 MA's), (37, 40386), (41, 40428), (43, 40431), (62, 40584), (90, 40758), (94, 40779),

Gene: Zeenon_97 Start: 40214, Stop: 40765, Start Num: 18

Candidate Starts for Zeenon_97:

(Start: 18 @40214 has 165 MA's), (Start: 34 @40268 has 2 MA's), (37, 40313), (41, 40355), (43, 40358), (62, 40511), (90, 40685), (94, 40706),

Gene: ZygoTaiga_94 Start: 41374, Stop: 41925, Start Num: 18

Candidate Starts for ZygoTaiga_94:

(Start: 18 @41374 has 165 MA's), (Start: 34 @41428 has 2 MA's), (37, 41473), (41, 41515), (43, 41518), (62, 41671), (90, 41845), (94, 41866),