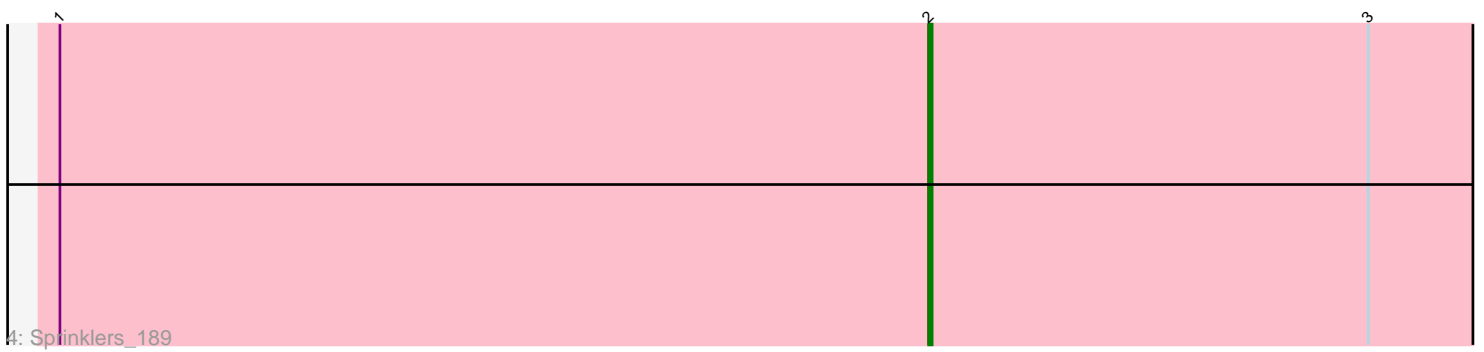
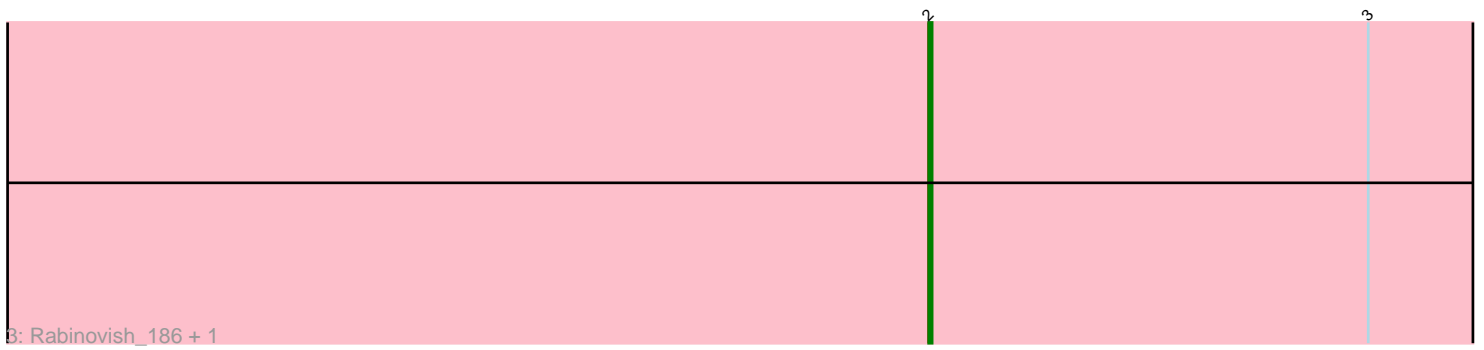
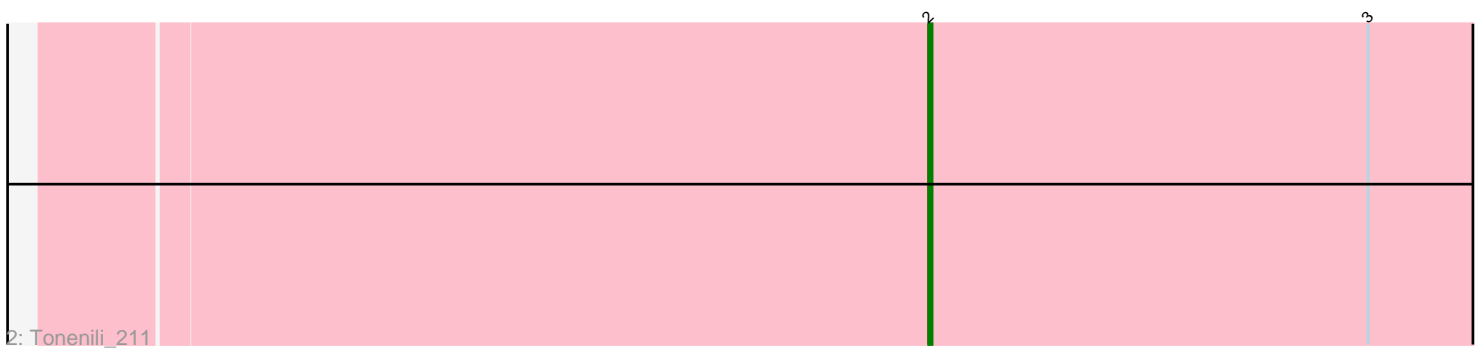
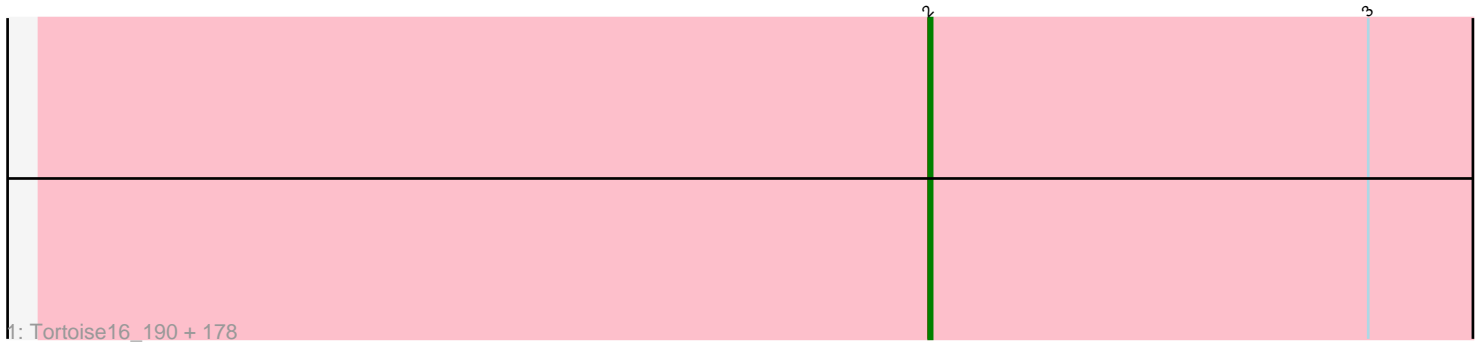


Pham 544



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 544 Report

This analysis was run 07/09/24 on database version 566.

Pham number 544 has 183 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Tortoise16_190, Cane17_183, Kamryn_191, Cali_186, Nidhogg_193, Naija_192, Adlitam_191, Roots515_194, Norm_191, Kboogie_196, Turret_186, Ronan_187, LolaVinca_190, Erdmann_193, Babyland_194, Grasshills_199, ChickenPhender_189, MoMoMixon_190, Daffodil_196, Willis_192, Guwapp_187, Rahel_193, NuevoMundo_195, Amataga_192, Flabslab_188, Ading_192, McWolfish_189, Bigswole_195, Colt_183, BackyardAgain_189, FudgeTart_187, BananaFence_189, Audrick_195, Sauce_188, Phlegm_195, Asterius_188, Izajani_190, Shaqnato_184, NedWong_191, Chargie21_190, Gizmo_197, InterFolia_195, Blackbrain_189, Zeenon_194, Cactojaque_188, DirtMonster_185, MikeLiesIn_193, Littleton_195, Mikro_187, Shrimp_193, Trinitium_189, Morizzled23_190, Patter_192, Latch_191, FrayBell_195, Breeniome_191, Blackdragon_186, JustHall_187, HyRo_180, Delylah_193, McGee_192, Phox_192, SilverDipper_195, Concombre_196, Stubby_177, BeanWater_183, Lee7_192, Halldule_184, Khaleesi_191, Naval22_197, ArcherS7_191, Ava3_191, Mangeria_192, BadAgartude_186, EasyJones_196, LifeSavor_191, StubbySaigey_196, Tyke_190, JulietS_185, Iota_186, NoodleTree_198, EmmaElysia_195, Capablanca_196, Janiyra_196, Yucca_192, Bipolarisk_190, Teardrop_189, IkeLoa_184, Jaygup_188, Darko_191, Melpomini_186, I3_200, CharlieB_185, Issimir_189, JPickles_188, Salacia_192, Gabriel_195, Zalkecks_191, EmToTheThree_193, Quasimodo_195, Derek_189, LinStu_190, Koguma_190, Rizal_186, FoxtrotP1_190, ChaylaJr_190, Blubba_188, SrishMeg2525_189, Bangla1971_192, Sebata_193, Essence_189, LordLeafolot_194, EggyFarm_200, Pinkcreek_176, Dietrick_182, Caravan_183, YoungMoneyMata_191, ET08_180, Drazdys_190, PurduePete_192, Bxz1_183, Pleione_196, Matsumoto_192, Specks_196, Phusco_191, Spud_188, Delilah_190, ScottMcG_186, Wally_192, Grungle_177, Fludd_193, CindyLou_193, RoMag_187, LRRHood_185, Gamgam_192, Napoleon13_190, DrPhinkDaddy_189, ErnieJ_185, ValleyTerrace_192, Momo_192, Pier_193, Dandelion_199, Ghost_192, StephanieG_189, TinyTim_190, Pio_200, Loanshark_189, DTDevon_194, Ewok_191, Cateria_187, Maby2021_191, Basquiat_190, Astraea_186, Yassified_188, Burrough_194, ZygoTaiga_188, Pivoine_192, Jemmno_191, Chomp_190, InigoMontoya_194, Megamind_189, BigCity_200, QBert_183, Spec_187, JayJay_190, Jessibeth14_192, ShiaLabeouf_189, YemiJoy2021_192, Shelob_193, Nappy_192, Shnickers_190, Ngannou_188, Jedediah_192, Lukilu_182, SmallFry_192, Bonray_194, Bread_187, ParkTD_190, Atlantean_191
- Track 2 : Tonenili_211
- Track 3 : Rabinovish_186, Alice_179

- Track 4 : Sprinklers_189

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

The start number called the most often in the published annotations is 2, it was called in 166 of the 166 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_192, Adlitam_191, Alice_179, Amataga_192, ArcherS7_191, Asterius_188, Astraea_186, Atlantean_191, Audrick_195, Ava3_191, Babyland_194, BackyardAgain_189, BadAgartude_186, BananaFence_189, Bangla1971_192, Basquiat_190, BeanWater_183, BigCity_200, Bigswole_195, Bipolarisk_190, Blackbrain_189, Blackdragon_186, Blubba_188, Bonray_194, Bread_187, Breeniome_191, Burrough_194, Bxz1_183, Cactojaque_188, Cali_186, Cane17_183, Capablanca_196, Caravan_183, Catera_187, Chargie21_190, CharlieB_185, ChaylaJr_190, ChickenPhender_189, Chomp_190, CindyLou_193, Colt_183, Concombre_196, DTDevon_194, Daffodil_196, Dandelion_199, Darko_191, Delilah_190, Delylah_193, Derek_189, Dietrick_182, DirtMonster_185, DrPhinkDaddy_189, Drazdys_190, ET08_180, EasyJones_196, EggyFarm_200, EmToTheThree_193, EmmaElysia_195, Erdmann_193, ErnieJ_185, Essence_189, Ewok_191, Flabslab_188, Fludd_193, FoxtrotP1_190, FrayBell_195, FudgeTart_187, Gabriel_195, Gangam_192, Ghost_192, Gizmo_197, Grasshills_199, Grungle_177, Guwapp_187, Halldule_184, HyRo_180, I3_200, IkeLoa_184, InigoMontoya_194, InterFolia_195, Iota_186, Issimir_189, Izajani_190, JPickles_188, Janiyra_196, JayJay_190, Jaygup_188, Jediah_192, Jemmno_191, Jessibeth14_192, JulietS_185, JustHall_187, Kamryn_191, Kboogie_196, Khaleesi_191, Koguma_190, LRRHood_185, Latch_191, Lee7_192, LifeSavor_191, LinStu_190, Littleton_195, Loanshark_189, LolaVinca_190, LordLeafolot_194, Lukilu_182, Maby2021_191, Mangeria_192, Matsumoto_192, McGee_192, McWolfish_189, Megamind_189, Melpomini_186, MikeLiesIn_193, Mikro_187, MoMoMixon_190, Momo_192, Morizzled23_190, Naija_192, Napoleon13_190, Nappy_192, Naval22_197, NedWong_191, Ngannou_188, Nidhogg_193, NoodleTree_198, Norm_191, NuevoMundo_195, ParkTD_190, Patter_192, Phlegm_195, Phox_192, Phusco_191, Pier_193, Pinkcreek_176, Pio_200, Pivoine_192, Pleione_196, PurduePete_192, QBert_183, Quasimodo_195, Rabinovish_186, Rahel_193, Rizal_186, RoMag_187, Ronan_187, Roots515_194, Salacia_192, Sauce_188, ScottMcG_186, Sebata_193, Shaqnato_184, Shelob_193, ShiaLabeouf_189, Shnickers_190, Shrimp_193, SilverDipper_195, SmallFry_192, Spec_187, Specks_196, Sprinklers_189, Spud_188, SrishMeg2525_189, StephanieG_189, StubbySaigey_196, Stubby_177, Teardrop_189, TinyTim_190, Tonenili_211, Tortoise16_190, Trinitium_189, Turret_186, Tyke_190, ValleyTerrace_192, Wally_192, Willis_192, Yassified_188, YemiJoy2021_192, YoungMoneyMata_191, Yucca_192, Zalkecks_191, Zeenon_194, ZygoTaiga_188,

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

-

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

-

Summary by start number:

Start 2:

- Found in 183 of 183 (100.0%) of genes in pham
- Manual Annotations of this start: 166 of 166
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ading_192 (C1), Adlitam_191 (C1), Alice_179 (C1), Amataga_192 (C1), ArcherS7_191 (C1), Asterius_188 (C1), Astraea_186 (C1), Atlantean_191 (C1), Audrick_195 (C1), Ava3_191 (C1), Babyland_194 (C1), BackyardAgain_189 (C1), BadAgartude_186 (C1), BananaFence_189 (C1), Bangla1971_192 (C1), Basquiat_190 (C1), BeanWater_183 (C1), BigCity_200 (C1), Bigswole_195 (C1), Bipolarisk_190 (C1), Blackbrain_189 (C1), Blackdragon_186 (C1), Blubba_188 (C1), Bonray_194 (C1), Bread_187 (C1), Breeniome_191 (C1), Burrough_194 (C1), Bxz1_183 (C1), Cactojaque_188 (C1), Cali_186 (C1), Cane17_183 (C1), Capablanca_196 (C1), Caravan_183 (C1), Catera_187 (C1), Chargie21_190 (C1), CharlieB_185 (C1), ChaylaJr_190 (C1), ChickenPhender_189 (C1), Chomp_190 (C1), CindyLou_193 (C1), Colt_183 (C1), Concombre_196 (C1), DTDevon_194 (C1), Daffodil_196 (C1), Dandelion_199 (C1), Darko_191 (C1), Delilah_190 (C1), Delylah_193 (C1), Derek_189 (C1), Dietrick_182 (C1), DirtMonster_185 (C1), DrPhinkDaddy_189 (C1), Drazdys_190 (C1), ET08_180 (C1), EasyJones_196 (C1), EggyFarm_200 (C1), EmToTheThree_193 (C1), EmmaElysia_195 (C1), Erdmann_193 (C1), ErnieJ_185 (C1), Essence_189 (C1), Ewok_191 (C1), Flabslab_188 (C1), Fludd_193 (C1), FoxtrotP1_190 (C1), FrayBell_195 (C1), FudgeTart_187 (C1), Gabriel_195 (C1), Gamgam_192 (C1), Ghost_192 (C1), Gizmo_197 (C1), Grasshills_199 (C1), Grungle_177 (C1), Guwapp_187 (C1), Halldule_184 (C1), HyRo_180 (C1), I3_200 (C1), IkeLoa_184 (C1), InigoMontoya_194 (C1), InterFolia_195 (C1), Iota_186 (C1), Issimir_189 (C1), Izajani_190 (C1), JPickles_188 (C1), Janiyr_196 (C1), JayJay_190 (C1), Jaygup_188 (C1), Jedediah_192 (C1), Jemmno_191 (C1), Jessibeth14_192 (C1), JulietS_185 (C1), JustHall_187 (C1), Kamryn_191 (C1), Kboogie_196 (C1), Khaleesi_191 (C1), Koguma_190 (C1), LRRHood_185 (C1), Latch_191 (C1), Lee7_192 (C1), LifeSavor_191 (C1), LinStu_190 (C1), Littleton_195 (C1), Loanshark_189 (C1), LolaVinca_190 (C1), LordLeafolot_194 (C1), Lukilu_182 (C1), Maby2021_191 (C1), Mangeria_192 (C1), Matsumoto_192 (C1), McGee_192 (C1), McWolfish_189 (C1), Megamind_189 (C1), Melpomini_186 (C1), MikeLiesIn_193 (C1), Mikro_187 (C1), MoMoMixon_190 (C1), Momo_192 (C1), Morizzled23_190 (C1), Naija_192 (C1), Napoleon13_190 (C1), Nappy_192 (C1), Naval22_197 (C1), NedWong_191 (C1), Ngannou_188 (C1), Nidhogg_193 (C1), NoodleTree_198 (C1), Norm_191 (C1), NuevoMundo_195 (C1), ParkTD_190 (C1), Patter_192 (C1), Phlegm_195 (C1), Phox_192 (C1), Phusco_191 (C1), Pier_193 (C1), Pinkcreek_176 (C1), Pio_200 (C1), Pivoine_192 (C1), Pleione_196 (C1), PurduePete_192 (C1), QBert_183 (C1), Quasimodo_195 (C1), Rabinovish_186 (C1), Rahel_193 (C1), Rizal_186 (C1), RoMag_187 (C1), Ronan_187 (C1), Roots515_194 (C1), Salacia_192 (C1), Sauce_188 (C1), ScottMcG_186 (C1), Sebata_193 (C1), Shaq nato_184 (C1), Shelob_193 (C1), ShiaLabeouf_189 (C1), Shnickers_190 (C1), Shrimp_193 (C1), SilverDipper_195 (C1), SmallFry_192 (C1), Spec_187 (C1), Specks_196 (C1), Sprinklers_189 (C1), Spud_188 (C1), SrishMeg2525_189 (C1), StephanieG_189 (C1), StubbySaigey_196 (C1), Stubby_177 (C1), Teardrop_189 (C1), TinyTim_190 (C1), Tonenili_211 (C1), Tortoise16_190 (C1), Trinitium_189 (C1), Turret_186 (C1), Tyke_190 (C1), ValleyTerrace_192 (C1), Wally_192 (C1), Willis_192 (C1), Yassified_188 (C1), YemiJoy2021_192 (C1), YoungMoneyMata_191 (C1), Yucca_192 (C1), Zalkecks_191 (C1), Zeenon_194 (C1), ZygoTaiga_188 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

•Start number 2 was manually annotated 166 times for cluster C1.

Gene Information:

Gene: Ading_192 Start: 102827, Stop: 103003, Start Num: 2

Candidate Starts for Ading_192:

(Start: 2 @102827 has 166 MA's), (3, 102953),

Gene: Adlitam_191 Start: 101815, Stop: 101991, Start Num: 2

Candidate Starts for Adlitam_191:

(Start: 2 @101815 has 166 MA's), (3, 101941),

Gene: Alice_179 Start: 101882, Stop: 102058, Start Num: 2

Candidate Starts for Alice_179:

(Start: 2 @101882 has 166 MA's), (3, 102008),

Gene: Amataga_192 Start: 101243, Stop: 101419, Start Num: 2

Candidate Starts for Amataga_192:

(Start: 2 @101243 has 166 MA's), (3, 101369),

Gene: ArcherS7_191 Start: 102273, Stop: 102449, Start Num: 2

Candidate Starts for ArcherS7_191:

(Start: 2 @102273 has 166 MA's), (3, 102399),

Gene: Asterius_188 Start: 101960, Stop: 102136, Start Num: 2

Candidate Starts for Asterius_188:

(Start: 2 @101960 has 166 MA's), (3, 102086),

Gene: Astraea_186 Start: 101335, Stop: 101511, Start Num: 2

Candidate Starts for Astraea_186:

(Start: 2 @101335 has 166 MA's), (3, 101461),

Gene: Atlantean_191 Start: 101243, Stop: 101419, Start Num: 2

Candidate Starts for Atlantean_191:

(Start: 2 @101243 has 166 MA's), (3, 101369),

Gene: Audrick_195 Start: 101925, Stop: 102101, Start Num: 2

Candidate Starts for Audrick_195:

(Start: 2 @101925 has 166 MA's), (3, 102051),

Gene: Ava3_191 Start: 101986, Stop: 102162, Start Num: 2

Candidate Starts for Ava3_191:

(Start: 2 @101986 has 166 MA's), (3, 102112),

Gene: Babyland_194 Start: 102020, Stop: 102196, Start Num: 2

Candidate Starts for Babyland_194:

(Start: 2 @102020 has 166 MA's), (3, 102146),

Gene: BackyardAgain_189 Start: 100721, Stop: 100897, Start Num: 2
Candidate Starts for BackyardAgain_189:
(Start: 2 @100721 has 166 MA's), (3, 100847),

Gene: BadAgartude_186 Start: 101726, Stop: 101902, Start Num: 2
Candidate Starts for BadAgartude_186:
(Start: 2 @101726 has 166 MA's), (3, 101852),

Gene: BananaFence_189 Start: 101964, Stop: 102140, Start Num: 2
Candidate Starts for BananaFence_189:
(Start: 2 @101964 has 166 MA's), (3, 102090),

Gene: Bangla1971_192 Start: 101633, Stop: 101809, Start Num: 2
Candidate Starts for Bangla1971_192:
(Start: 2 @101633 has 166 MA's), (3, 101759),

Gene: Basquiat_190 Start: 101547, Stop: 101723, Start Num: 2
Candidate Starts for Basquiat_190:
(Start: 2 @101547 has 166 MA's), (3, 101673),

Gene: BeanWater_183 Start: 101287, Stop: 101463, Start Num: 2
Candidate Starts for BeanWater_183:
(Start: 2 @101287 has 166 MA's), (3, 101413),

Gene: BigCity_200 Start: 104852, Stop: 105028, Start Num: 2
Candidate Starts for BigCity_200:
(Start: 2 @104852 has 166 MA's), (3, 104978),

Gene: Bigswole_195 Start: 104285, Stop: 104461, Start Num: 2
Candidate Starts for Bigswole_195:
(Start: 2 @104285 has 166 MA's), (3, 104411),

Gene: Bipolarisk_190 Start: 102254, Stop: 102430, Start Num: 2
Candidate Starts for Bipolarisk_190:
(Start: 2 @102254 has 166 MA's), (3, 102380),

Gene: Blackbrain_189 Start: 102149, Stop: 102325, Start Num: 2
Candidate Starts for Blackbrain_189:
(Start: 2 @102149 has 166 MA's), (3, 102275),

Gene: Blackdragon_186 Start: 101585, Stop: 101761, Start Num: 2
Candidate Starts for Blackdragon_186:
(Start: 2 @101585 has 166 MA's), (3, 101711),

Gene: Blubba_188 Start: 105126, Stop: 105302, Start Num: 2
Candidate Starts for Blubba_188:
(Start: 2 @105126 has 166 MA's), (3, 105252),

Gene: Bonray_194 Start: 103657, Stop: 103833, Start Num: 2
Candidate Starts for Bonray_194:
(Start: 2 @103657 has 166 MA's), (3, 103783),

Gene: Bread_187 Start: 101655, Stop: 101831, Start Num: 2
Candidate Starts for Bread_187:
(Start: 2 @101655 has 166 MA's), (3, 101781),

Gene: Breeniome_191 Start: 101286, Stop: 101462, Start Num: 2
Candidate Starts for Breeniome_191:
(Start: 2 @101286 has 166 MA's), (3, 101412),

Gene: Burrough_194 Start: 103500, Stop: 103676, Start Num: 2
Candidate Starts for Burrough_194:
(Start: 2 @103500 has 166 MA's), (3, 103626),

Gene: Bxz1_183 Start: 104699, Stop: 104875, Start Num: 2
Candidate Starts for Bxz1_183:
(Start: 2 @104699 has 166 MA's), (3, 104825),

Gene: Cactojaque_188 Start: 101567, Stop: 101743, Start Num: 2
Candidate Starts for Cactojaque_188:
(Start: 2 @101567 has 166 MA's), (3, 101693),

Gene: Cali_186 Start: 103040, Stop: 103216, Start Num: 2
Candidate Starts for Cali_186:
(Start: 2 @103040 has 166 MA's), (3, 103166),

Gene: Cane17_183 Start: 105535, Stop: 105711, Start Num: 2
Candidate Starts for Cane17_183:
(Start: 2 @105535 has 166 MA's), (3, 105661),

Gene: Capablanca_196 Start: 104252, Stop: 104428, Start Num: 2
Candidate Starts for Capablanca_196:
(Start: 2 @104252 has 166 MA's), (3, 104378),

Gene: Caravan_183 Start: 101961, Stop: 102137, Start Num: 2
Candidate Starts for Caravan_183:
(Start: 2 @101961 has 166 MA's), (3, 102087),

Gene: Catera_187 Start: 101247, Stop: 101423, Start Num: 2
Candidate Starts for Catera_187:
(Start: 2 @101247 has 166 MA's), (3, 101373),

Gene: Chargie21_190 Start: 101547, Stop: 101723, Start Num: 2
Candidate Starts for Chargie21_190:
(Start: 2 @101547 has 166 MA's), (3, 101673),

Gene: CharlieB_185 Start: 101489, Stop: 101665, Start Num: 2
Candidate Starts for CharlieB_185:
(Start: 2 @101489 has 166 MA's), (3, 101615),

Gene: ChaylaJr_190 Start: 101975, Stop: 102151, Start Num: 2
Candidate Starts for ChaylaJr_190:
(Start: 2 @101975 has 166 MA's), (3, 102101),

Gene: ChickenPhender_189 Start: 101694, Stop: 101870, Start Num: 2
Candidate Starts for ChickenPhender_189:
(Start: 2 @101694 has 166 MA's), (3, 101820),

Gene: Chomp_190 Start: 102532, Stop: 102708, Start Num: 2
Candidate Starts for Chomp_190:
(Start: 2 @102532 has 166 MA's), (3, 102658),

Gene: CindyLou_193 Start: 103275, Stop: 103451, Start Num: 2
Candidate Starts for CindyLou_193:
(Start: 2 @103275 has 166 MA's), (3, 103401),

Gene: Colt_183 Start: 104766, Stop: 104942, Start Num: 2
Candidate Starts for Colt_183:
(Start: 2 @104766 has 166 MA's), (3, 104892),

Gene: Concombres_196 Start: 104383, Stop: 104559, Start Num: 2
Candidate Starts for Concombres_196:
(Start: 2 @104383 has 166 MA's), (3, 104509),

Gene: DTDevon_194 Start: 103767, Stop: 103943, Start Num: 2
Candidate Starts for DTDevon_194:
(Start: 2 @103767 has 166 MA's), (3, 103893),

Gene: Daffodil_196 Start: 102554, Stop: 102730, Start Num: 2
Candidate Starts for Daffodil_196:
(Start: 2 @102554 has 166 MA's), (3, 102680),

Gene: Dandelion_199 Start: 106089, Stop: 106265, Start Num: 2
Candidate Starts for Dandelion_199:
(Start: 2 @106089 has 166 MA's), (3, 106215),

Gene: Darko_191 Start: 101968, Stop: 102144, Start Num: 2
Candidate Starts for Darko_191:
(Start: 2 @101968 has 166 MA's), (3, 102094),

Gene: Delilah_190 Start: 102672, Stop: 102848, Start Num: 2
Candidate Starts for Delilah_190:
(Start: 2 @102672 has 166 MA's), (3, 102798),

Gene: Delylah_193 Start: 102653, Stop: 102829, Start Num: 2
Candidate Starts for Delylah_193:
(Start: 2 @102653 has 166 MA's), (3, 102779),

Gene: Derek_189 Start: 102295, Stop: 102471, Start Num: 2
Candidate Starts for Derek_189:
(Start: 2 @102295 has 166 MA's), (3, 102421),

Gene: Dietrick_182 Start: 101277, Stop: 101453, Start Num: 2
Candidate Starts for Dietrick_182:
(Start: 2 @101277 has 166 MA's), (3, 101403),

Gene: DirtMonster_185 Start: 102037, Stop: 102213, Start Num: 2

Candidate Starts for DirtMonster_185:
(Start: 2 @102037 has 166 MA's), (3, 102163),

Gene: DrPhinkDaddy_189 Start: 103333, Stop: 103509, Start Num: 2
Candidate Starts for DrPhinkDaddy_189:
(Start: 2 @103333 has 166 MA's), (3, 103459),

Gene: Drazdys_190 Start: 102310, Stop: 102486, Start Num: 2
Candidate Starts for Drazdys_190:
(Start: 2 @102310 has 166 MA's), (3, 102436),

Gene: ET08_180 Start: 101523, Stop: 101699, Start Num: 2
Candidate Starts for ET08_180:
(Start: 2 @101523 has 166 MA's), (3, 101649),

Gene: EasyJones_196 Start: 102789, Stop: 102965, Start Num: 2
Candidate Starts for EasyJones_196:
(Start: 2 @102789 has 166 MA's), (3, 102915),

Gene: EggyFarm_200 Start: 104853, Stop: 105029, Start Num: 2
Candidate Starts for EggyFarm_200:
(Start: 2 @104853 has 166 MA's), (3, 104979),

Gene: EmToTheThree_193 Start: 103189, Stop: 103365, Start Num: 2
Candidate Starts for EmToTheThree_193:
(Start: 2 @103189 has 166 MA's), (3, 103315),

Gene: EmmaElysia_195 Start: 102800, Stop: 102976, Start Num: 2
Candidate Starts for EmmaElysia_195:
(Start: 2 @102800 has 166 MA's), (3, 102926),

Gene: Erdmann_193 Start: 102664, Stop: 102840, Start Num: 2
Candidate Starts for Erdmann_193:
(Start: 2 @102664 has 166 MA's), (3, 102790),

Gene: ErnieJ_185 Start: 100969, Stop: 101145, Start Num: 2
Candidate Starts for ErnieJ_185:
(Start: 2 @100969 has 166 MA's), (3, 101095),

Gene: Essence_189 Start: 101522, Stop: 101698, Start Num: 2
Candidate Starts for Essence_189:
(Start: 2 @101522 has 166 MA's), (3, 101648),

Gene: Ewok_191 Start: 102583, Stop: 102759, Start Num: 2
Candidate Starts for Ewok_191:
(Start: 2 @102583 has 166 MA's), (3, 102709),

Gene: Flabslab_188 Start: 101111, Stop: 101287, Start Num: 2
Candidate Starts for Flabslab_188:
(Start: 2 @101111 has 166 MA's), (3, 101237),

Gene: Fludd_193 Start: 102502, Stop: 102678, Start Num: 2
Candidate Starts for Fludd_193:

(Start: 2 @102502 has 166 MA's), (3, 102628),

Gene: FoxtrotP1_190 Start: 103164, Stop: 103340, Start Num: 2

Candidate Starts for FoxtrotP1_190:

(Start: 2 @103164 has 166 MA's), (3, 103290),

Gene: FrayBell_195 Start: 102287, Stop: 102463, Start Num: 2

Candidate Starts for FrayBell_195:

(Start: 2 @102287 has 166 MA's), (3, 102413),

Gene: FudgeTart_187 Start: 101730, Stop: 101906, Start Num: 2

Candidate Starts for FudgeTart_187:

(Start: 2 @101730 has 166 MA's), (3, 101856),

Gene: Gabriel_195 Start: 101260, Stop: 101436, Start Num: 2

Candidate Starts for Gabriel_195:

(Start: 2 @101260 has 166 MA's), (3, 101386),

Gene: Gamgam_192 Start: 101233, Stop: 101409, Start Num: 2

Candidate Starts for Gamgam_192:

(Start: 2 @101233 has 166 MA's), (3, 101359),

Gene: Ghost_192 Start: 101946, Stop: 102122, Start Num: 2

Candidate Starts for Ghost_192:

(Start: 2 @101946 has 166 MA's), (3, 102072),

Gene: Gizmo_197 Start: 104581, Stop: 104757, Start Num: 2

Candidate Starts for Gizmo_197:

(Start: 2 @104581 has 166 MA's), (3, 104707),

Gene: Grasshills_199 Start: 104852, Stop: 105028, Start Num: 2

Candidate Starts for Grasshills_199:

(Start: 2 @104852 has 166 MA's), (3, 104978),

Gene: Grungle_177 Start: 99983, Stop: 100159, Start Num: 2

Candidate Starts for Grungle_177:

(Start: 2 @99983 has 166 MA's), (3, 100109),

Gene: Guwapp_187 Start: 100474, Stop: 100650, Start Num: 2

Candidate Starts for Guwapp_187:

(Start: 2 @100474 has 166 MA's), (3, 100600),

Gene: Halldule_184 Start: 100379, Stop: 100555, Start Num: 2

Candidate Starts for Halldule_184:

(Start: 2 @100379 has 166 MA's), (3, 100505),

Gene: HyRo_180 Start: 101980, Stop: 102156, Start Num: 2

Candidate Starts for HyRo_180:

(Start: 2 @101980 has 166 MA's), (3, 102106),

Gene: I3_200 Start: 103933, Stop: 104109, Start Num: 2

Candidate Starts for I3_200:

(Start: 2 @103933 has 166 MA's), (3, 104059),

Gene: IkeLoa_184 Start: 101279, Stop: 101455, Start Num: 2
Candidate Starts for IkeLoa_184:
(Start: 2 @101279 has 166 MA's), (3, 101405),

Gene: InigoMontoya_194 Start: 101907, Stop: 102083, Start Num: 2
Candidate Starts for InigoMontoya_194:
(Start: 2 @101907 has 166 MA's), (3, 102033),

Gene: InterFolia_195 Start: 103991, Stop: 104167, Start Num: 2
Candidate Starts for InterFolia_195:
(Start: 2 @103991 has 166 MA's), (3, 104117),

Gene: Iota_186 Start: 101580, Stop: 101756, Start Num: 2
Candidate Starts for Iota_186:
(Start: 2 @101580 has 166 MA's), (3, 101706),

Gene: Issimir_189 Start: 101854, Stop: 102030, Start Num: 2
Candidate Starts for Issimir_189:
(Start: 2 @101854 has 166 MA's), (3, 101980),

Gene: Izajani_190 Start: 102723, Stop: 102899, Start Num: 2
Candidate Starts for Izajani_190:
(Start: 2 @102723 has 166 MA's), (3, 102849),

Gene: JPickles_188 Start: 100375, Stop: 100551, Start Num: 2
Candidate Starts for JPickles_188:
(Start: 2 @100375 has 166 MA's), (3, 100501),

Gene: Janiyra_196 Start: 102924, Stop: 103100, Start Num: 2
Candidate Starts for Janiyra_196:
(Start: 2 @102924 has 166 MA's), (3, 103050),

Gene: JayJay_190 Start: 103138, Stop: 103314, Start Num: 2
Candidate Starts for JayJay_190:
(Start: 2 @103138 has 166 MA's), (3, 103264),

Gene: Jaygup_188 Start: 101337, Stop: 101513, Start Num: 2
Candidate Starts for Jaygup_188:
(Start: 2 @101337 has 166 MA's), (3, 101463),

Gene: Jedediah_192 Start: 102492, Stop: 102668, Start Num: 2
Candidate Starts for Jedediah_192:
(Start: 2 @102492 has 166 MA's), (3, 102618),

Gene: Jemmno_191 Start: 101318, Stop: 101494, Start Num: 2
Candidate Starts for Jemmno_191:
(Start: 2 @101318 has 166 MA's), (3, 101444),

Gene: Jessibeth14_192 Start: 103332, Stop: 103508, Start Num: 2
Candidate Starts for Jessibeth14_192:
(Start: 2 @103332 has 166 MA's), (3, 103458),

Gene: JulietS_185 Start: 99607, Stop: 99783, Start Num: 2
Candidate Starts for JulietS_185:
(Start: 2 @99607 has 166 MA's), (3, 99733),

Gene: JustHall_187 Start: 101831, Stop: 102007, Start Num: 2
Candidate Starts for JustHall_187:
(Start: 2 @101831 has 166 MA's), (3, 101957),

Gene: Kamryn_191 Start: 103053, Stop: 103229, Start Num: 2
Candidate Starts for Kamryn_191:
(Start: 2 @103053 has 166 MA's), (3, 103179),

Gene: Kboogie_196 Start: 102489, Stop: 102665, Start Num: 2
Candidate Starts for Kboogie_196:
(Start: 2 @102489 has 166 MA's), (3, 102615),

Gene: Khaleesi_191 Start: 102799, Stop: 102975, Start Num: 2
Candidate Starts for Khaleesi_191:
(Start: 2 @102799 has 166 MA's), (3, 102925),

Gene: Koguma_190 Start: 101356, Stop: 101532, Start Num: 2
Candidate Starts for Koguma_190:
(Start: 2 @101356 has 166 MA's), (3, 101482),

Gene: LRRHood_185 Start: 101701, Stop: 101877, Start Num: 2
Candidate Starts for LRRHood_185:
(Start: 2 @101701 has 166 MA's), (3, 101827),

Gene: Latch_191 Start: 101243, Stop: 101419, Start Num: 2
Candidate Starts for Latch_191:
(Start: 2 @101243 has 166 MA's), (3, 101369),

Gene: Lee7_192 Start: 104179, Stop: 104355, Start Num: 2
Candidate Starts for Lee7_192:
(Start: 2 @104179 has 166 MA's), (3, 104305),

Gene: LifeSavor_191 Start: 102152, Stop: 102328, Start Num: 2
Candidate Starts for LifeSavor_191:
(Start: 2 @102152 has 166 MA's), (3, 102278),

Gene: LinStu_190 Start: 102297, Stop: 102473, Start Num: 2
Candidate Starts for LinStu_190:
(Start: 2 @102297 has 166 MA's), (3, 102423),

Gene: Littleton_195 Start: 102963, Stop: 103139, Start Num: 2
Candidate Starts for Littleton_195:
(Start: 2 @102963 has 166 MA's), (3, 103089),

Gene: Loanshark_189 Start: 102114, Stop: 102290, Start Num: 2
Candidate Starts for Loanshark_189:
(Start: 2 @102114 has 166 MA's), (3, 102240),

Gene: LolaVinca_190 Start: 103523, Stop: 103699, Start Num: 2

Candidate Starts for LolaVinca_190:
(Start: 2 @103523 has 166 MA's), (3, 103649),

Gene: LordLeafolot_194 Start: 103135, Stop: 103311, Start Num: 2
Candidate Starts for LordLeafolot_194:
(Start: 2 @103135 has 166 MA's), (3, 103261),

Gene: Lukilu_182 Start: 102711, Stop: 102887, Start Num: 2
Candidate Starts for Lukilu_182:
(Start: 2 @102711 has 166 MA's), (3, 102837),

Gene: Maby2021_191 Start: 103243, Stop: 103419, Start Num: 2
Candidate Starts for Maby2021_191:
(Start: 2 @103243 has 166 MA's), (3, 103369),

Gene: Mangeria_192 Start: 103036, Stop: 103212, Start Num: 2
Candidate Starts for Mangeria_192:
(Start: 2 @103036 has 166 MA's), (3, 103162),

Gene: Matsumoto_192 Start: 102477, Stop: 102653, Start Num: 2
Candidate Starts for Matsumoto_192:
(Start: 2 @102477 has 166 MA's), (3, 102603),

Gene: McGee_192 Start: 101671, Stop: 101847, Start Num: 2
Candidate Starts for McGee_192:
(Start: 2 @101671 has 166 MA's), (3, 101797),

Gene: McWolfish_189 Start: 102010, Stop: 102186, Start Num: 2
Candidate Starts for McWolfish_189:
(Start: 2 @102010 has 166 MA's), (3, 102136),

Gene: Megamind_189 Start: 102301, Stop: 102477, Start Num: 2
Candidate Starts for Megamind_189:
(Start: 2 @102301 has 166 MA's), (3, 102427),

Gene: Melpomini_186 Start: 100777, Stop: 100953, Start Num: 2
Candidate Starts for Melpomini_186:
(Start: 2 @100777 has 166 MA's), (3, 100903),

Gene: MikeLiesIn_193 Start: 103437, Stop: 103613, Start Num: 2
Candidate Starts for MikeLiesIn_193:
(Start: 2 @103437 has 166 MA's), (3, 103563),

Gene: Mikro_187 Start: 103677, Stop: 103853, Start Num: 2
Candidate Starts for Mikro_187:
(Start: 2 @103677 has 166 MA's), (3, 103803),

Gene: MoMoMixon_190 Start: 102065, Stop: 102241, Start Num: 2
Candidate Starts for MoMoMixon_190:
(Start: 2 @102065 has 166 MA's), (3, 102191),

Gene: Momo_192 Start: 101243, Stop: 101419, Start Num: 2
Candidate Starts for Momo_192:

(Start: 2 @101243 has 166 MA's), (3, 101369),

Gene: Morizzled23_190 Start: 101401, Stop: 101577, Start Num: 2

Candidate Starts for Morizzled23_190:

(Start: 2 @101401 has 166 MA's), (3, 101527),

Gene: Naija_192 Start: 101946, Stop: 102122, Start Num: 2

Candidate Starts for Naija_192:

(Start: 2 @101946 has 166 MA's), (3, 102072),

Gene: Napoleon13_190 Start: 101766, Stop: 101942, Start Num: 2

Candidate Starts for Napoleon13_190:

(Start: 2 @101766 has 166 MA's), (3, 101892),

Gene: Nappy_192 Start: 103648, Stop: 103824, Start Num: 2

Candidate Starts for Nappy_192:

(Start: 2 @103648 has 166 MA's), (3, 103774),

Gene: Naval22_197 Start: 104032, Stop: 104208, Start Num: 2

Candidate Starts for Naval22_197:

(Start: 2 @104032 has 166 MA's), (3, 104158),

Gene: NedWong_191 Start: 102688, Stop: 102864, Start Num: 2

Candidate Starts for NedWong_191:

(Start: 2 @102688 has 166 MA's), (3, 102814),

Gene: Ngannou_188 Start: 100225, Stop: 100401, Start Num: 2

Candidate Starts for Ngannou_188:

(Start: 2 @100225 has 166 MA's), (3, 100351),

Gene: Nidhogg_193 Start: 103081, Stop: 103257, Start Num: 2

Candidate Starts for Nidhogg_193:

(Start: 2 @103081 has 166 MA's), (3, 103207),

Gene: NoodleTree_198 Start: 102988, Stop: 103164, Start Num: 2

Candidate Starts for NoodleTree_198:

(Start: 2 @102988 has 166 MA's), (3, 103114),

Gene: Norm_191 Start: 102687, Stop: 102863, Start Num: 2

Candidate Starts for Norm_191:

(Start: 2 @102687 has 166 MA's), (3, 102813),

Gene: NuevoMundo_195 Start: 104617, Stop: 104793, Start Num: 2

Candidate Starts for NuevoMundo_195:

(Start: 2 @104617 has 166 MA's), (3, 104743),

Gene: ParkTD_190 Start: 102551, Stop: 102727, Start Num: 2

Candidate Starts for ParkTD_190:

(Start: 2 @102551 has 166 MA's), (3, 102677),

Gene: Patter_192 Start: 101260, Stop: 101436, Start Num: 2

Candidate Starts for Patter_192:

(Start: 2 @101260 has 166 MA's), (3, 101386),

Gene: Phlegm_195 Start: 101946, Stop: 102122, Start Num: 2
Candidate Starts for Phlegm_195:
(Start: 2 @101946 has 166 MA's), (3, 102072),

Gene: Phox_192 Start: 102907, Stop: 103083, Start Num: 2
Candidate Starts for Phox_192:
(Start: 2 @102907 has 166 MA's), (3, 103033),

Gene: Phusco_191 Start: 101570, Stop: 101746, Start Num: 2
Candidate Starts for Phusco_191:
(Start: 2 @101570 has 166 MA's), (3, 101696),

Gene: Pier_193 Start: 104159, Stop: 104335, Start Num: 2
Candidate Starts for Pier_193:
(Start: 2 @104159 has 166 MA's), (3, 104285),

Gene: Pinkcreek_176 Start: 101462, Stop: 101638, Start Num: 2
Candidate Starts for Pinkcreek_176:
(Start: 2 @101462 has 166 MA's), (3, 101588),

Gene: Pio_200 Start: 105354, Stop: 105530, Start Num: 2
Candidate Starts for Pio_200:
(Start: 2 @105354 has 166 MA's), (3, 105480),

Gene: Pivoine_192 Start: 101946, Stop: 102122, Start Num: 2
Candidate Starts for Pivoine_192:
(Start: 2 @101946 has 166 MA's), (3, 102072),

Gene: Pleione_196 Start: 103030, Stop: 103206, Start Num: 2
Candidate Starts for Pleione_196:
(Start: 2 @103030 has 166 MA's), (3, 103156),

Gene: PurduePete_192 Start: 103257, Stop: 103433, Start Num: 2
Candidate Starts for PurduePete_192:
(Start: 2 @103257 has 166 MA's), (3, 103383),

Gene: QBert_183 Start: 101209, Stop: 101385, Start Num: 2
Candidate Starts for QBert_183:
(Start: 2 @101209 has 166 MA's), (3, 101335),

Gene: Quasimodo_195 Start: 103364, Stop: 103540, Start Num: 2
Candidate Starts for Quasimodo_195:
(Start: 2 @103364 has 166 MA's), (3, 103490),

Gene: Rabinovish_186 Start: 103638, Stop: 103814, Start Num: 2
Candidate Starts for Rabinovish_186:
(Start: 2 @103638 has 166 MA's), (3, 103764),

Gene: Rahel_193 Start: 102164, Stop: 102340, Start Num: 2
Candidate Starts for Rahel_193:
(Start: 2 @102164 has 166 MA's), (3, 102290),

Gene: Rizal_186 Start: 100991, Stop: 101167, Start Num: 2
Candidate Starts for Rizal_186:
(Start: 2 @100991 has 166 MA's), (3, 101117),

Gene: RoMag_187 Start: 102475, Stop: 102651, Start Num: 2
Candidate Starts for RoMag_187:
(Start: 2 @102475 has 166 MA's), (3, 102601),

Gene: Ronan_187 Start: 100393, Stop: 100569, Start Num: 2
Candidate Starts for Ronan_187:
(Start: 2 @100393 has 166 MA's), (3, 100519),

Gene: Roots515_194 Start: 103809, Stop: 103985, Start Num: 2
Candidate Starts for Roots515_194:
(Start: 2 @103809 has 166 MA's), (3, 103935),

Gene: Salacia_192 Start: 102570, Stop: 102746, Start Num: 2
Candidate Starts for Salacia_192:
(Start: 2 @102570 has 166 MA's), (3, 102696),

Gene: Sauce_188 Start: 101384, Stop: 101560, Start Num: 2
Candidate Starts for Sauce_188:
(Start: 2 @101384 has 166 MA's), (3, 101510),

Gene: ScottMcG_186 Start: 101014, Stop: 101190, Start Num: 2
Candidate Starts for ScottMcG_186:
(Start: 2 @101014 has 166 MA's), (3, 101140),

Gene: Sebata_193 Start: 103482, Stop: 103658, Start Num: 2
Candidate Starts for Sebata_193:
(Start: 2 @103482 has 166 MA's), (3, 103608),

Gene: Shaqnato_184 Start: 101907, Stop: 102083, Start Num: 2
Candidate Starts for Shaqnato_184:
(Start: 2 @101907 has 166 MA's), (3, 102033),

Gene: Shelob_193 Start: 104065, Stop: 104241, Start Num: 2
Candidate Starts for Shelob_193:
(Start: 2 @104065 has 166 MA's), (3, 104191),

Gene: ShiaLabeouf_189 Start: 101375, Stop: 101551, Start Num: 2
Candidate Starts for ShiaLabeouf_189:
(Start: 2 @101375 has 166 MA's), (3, 101501),

Gene: Shnickers_190 Start: 101337, Stop: 101513, Start Num: 2
Candidate Starts for Shnickers_190:
(Start: 2 @101337 has 166 MA's), (3, 101463),

Gene: Shrimp_193 Start: 103007, Stop: 103183, Start Num: 2
Candidate Starts for Shrimp_193:
(Start: 2 @103007 has 166 MA's), (3, 103133),

Gene: SilverDipper_195 Start: 102502, Stop: 102678, Start Num: 2

Candidate Starts for SilverDipper_195:
(Start: 2 @102502 has 166 MA's), (3, 102628),

Gene: SmallFry_192 Start: 101533, Stop: 101709, Start Num: 2
Candidate Starts for SmallFry_192:
(Start: 2 @101533 has 166 MA's), (3, 101659),

Gene: Spec_187 Start: 101724, Stop: 101900, Start Num: 2
Candidate Starts for Spec_187:
(Start: 2 @101724 has 166 MA's), (3, 101850),

Gene: Specks_196 Start: 103740, Stop: 103916, Start Num: 2
Candidate Starts for Specks_196:
(Start: 2 @103740 has 166 MA's), (3, 103866),

Gene: Sprinklers_189 Start: 101611, Stop: 101787, Start Num: 2
Candidate Starts for Sprinklers_189:
(1, 101362), (Start: 2 @101611 has 166 MA's), (3, 101737),

Gene: Spud_188 Start: 102109, Stop: 102285, Start Num: 2
Candidate Starts for Spud_188:
(Start: 2 @102109 has 166 MA's), (3, 102235),

Gene: SrishMeg2525_189 Start: 102790, Stop: 102966, Start Num: 2
Candidate Starts for SrishMeg2525_189:
(Start: 2 @102790 has 166 MA's), (3, 102916),

Gene: StephanieG_189 Start: 103304, Stop: 103480, Start Num: 2
Candidate Starts for StephanieG_189:
(Start: 2 @103304 has 166 MA's), (3, 103430),

Gene: Stubby_177 Start: 102149, Stop: 102325, Start Num: 2
Candidate Starts for Stubby_177:
(Start: 2 @102149 has 166 MA's), (3, 102275),

Gene: StubbySaigey_196 Start: 102036, Stop: 102212, Start Num: 2
Candidate Starts for StubbySaigey_196:
(Start: 2 @102036 has 166 MA's), (3, 102162),

Gene: Teardrop_189 Start: 100935, Stop: 101111, Start Num: 2
Candidate Starts for Teardrop_189:
(Start: 2 @100935 has 166 MA's), (3, 101061),

Gene: TinyTim_190 Start: 101639, Stop: 101815, Start Num: 2
Candidate Starts for TinyTim_190:
(Start: 2 @101639 has 166 MA's), (3, 101765),

Gene: Tonenili_211 Start: 107377, Stop: 107556, Start Num: 2
Candidate Starts for Tonenili_211:
(Start: 2 @107377 has 166 MA's), (3, 107503),

Gene: Tortoise16_190 Start: 102176, Stop: 102352, Start Num: 2
Candidate Starts for Tortoise16_190:

(Start: 2 @102176 has 166 MA's), (3, 102302),

Gene: Trinitium_189 Start: 101869, Stop: 102045, Start Num: 2

Candidate Starts for Trinitium_189:

(Start: 2 @101869 has 166 MA's), (3, 101995),

Gene: Turret_186 Start: 101451, Stop: 101627, Start Num: 2

Candidate Starts for Turret_186:

(Start: 2 @101451 has 166 MA's), (3, 101577),

Gene: Tyke_190 Start: 103543, Stop: 103719, Start Num: 2

Candidate Starts for Tyke_190:

(Start: 2 @103543 has 166 MA's), (3, 103669),

Gene: ValleyTerrace_192 Start: 101243, Stop: 101419, Start Num: 2

Candidate Starts for ValleyTerrace_192:

(Start: 2 @101243 has 166 MA's), (3, 101369),

Gene: Wally_192 Start: 102019, Stop: 102195, Start Num: 2

Candidate Starts for Wally_192:

(Start: 2 @102019 has 166 MA's), (3, 102145),

Gene: Willis_192 Start: 102450, Stop: 102626, Start Num: 2

Candidate Starts for Willis_192:

(Start: 2 @102450 has 166 MA's), (3, 102576),

Gene: Yassified_188 Start: 101591, Stop: 101767, Start Num: 2

Candidate Starts for Yassified_188:

(Start: 2 @101591 has 166 MA's), (3, 101717),

Gene: YemiJoy2021_192 Start: 103206, Stop: 103382, Start Num: 2

Candidate Starts for YemiJoy2021_192:

(Start: 2 @103206 has 166 MA's), (3, 103332),

Gene: YoungMoneyMata_191 Start: 102234, Stop: 102410, Start Num: 2

Candidate Starts for YoungMoneyMata_191:

(Start: 2 @102234 has 166 MA's), (3, 102360),

Gene: Yucca_192 Start: 103197, Stop: 103373, Start Num: 2

Candidate Starts for Yucca_192:

(Start: 2 @103197 has 166 MA's), (3, 103323),

Gene: Zalkecks_191 Start: 102279, Stop: 102455, Start Num: 2

Candidate Starts for Zalkecks_191:

(Start: 2 @102279 has 166 MA's), (3, 102405),

Gene: Zeenon_194 Start: 102849, Stop: 103025, Start Num: 2

Candidate Starts for Zeenon_194:

(Start: 2 @102849 has 166 MA's), (3, 102975),

Gene: ZygoTaiga_188 Start: 103470, Stop: 103646, Start Num: 2

Candidate Starts for ZygoTaiga_188:

(Start: 2 @103470 has 166 MA's), (3, 103596),

