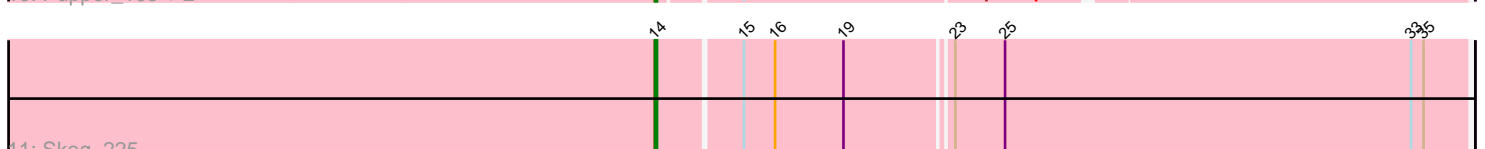
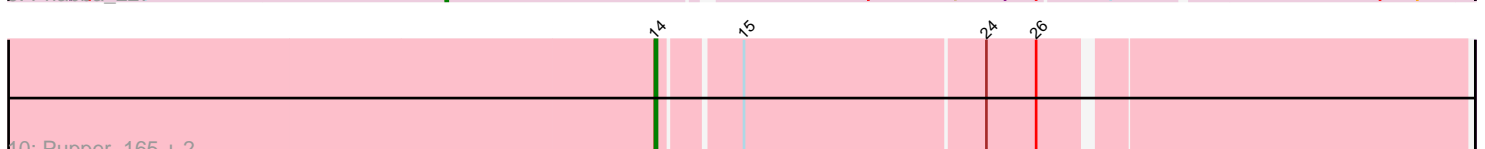
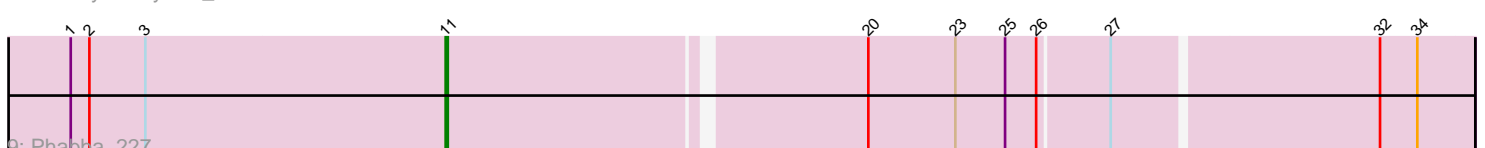
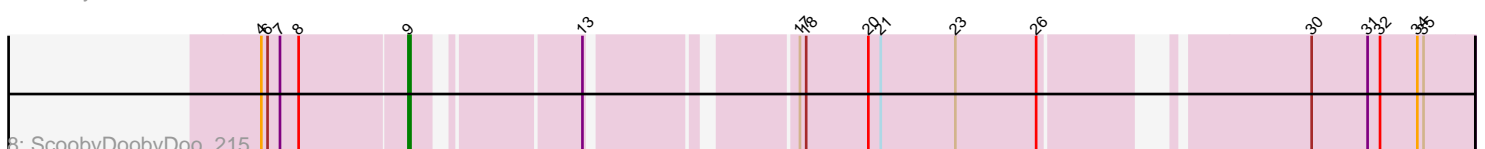
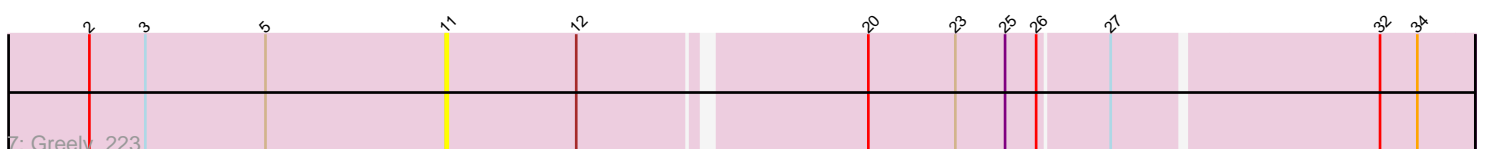
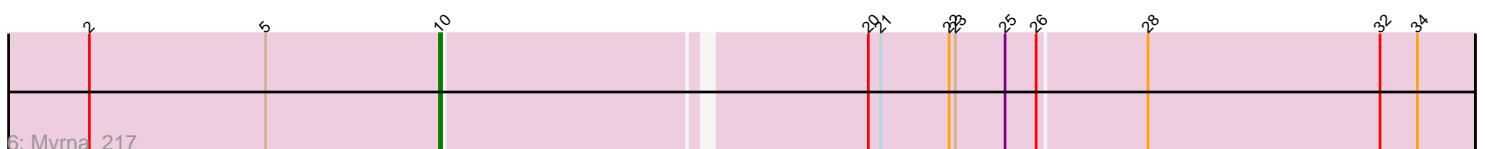


Pham 157609



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 157609 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157609 has 190 members, 17 are drafts.

Phages represented in each track:

- Track 1 : CharlieB_220, BigCity_235, Jessibeth14_226, JustHall_220, ChaylaJr_225, Audrick_228, LRRHood_219, Grasshills_234, Matsumoto_225, Caravan_217, Norm_226, Spud_220, Pivoine_227, JPickles_223, Bangla1971_227, DTDevon_229, FoxtrotP1_224, Patter_228, Gamgam_227, SilverDipper_230, Naija_227, ShiaLabeouf_224, Drazdys_225, BeanWater_219, Loanshark_223, Asterius_222, ErnieJ_219, Delylah_228, Ghost_227, Breeniome_225, EggyFarm_235, Mikro_222, BadAgartude_220, CindyLou_227, NedWong_225, LordLeafolot_228, Basquiat_223, Dietrick_215, Guwapp_222, ValleyTerrace_227, Kboogie_230, Roots515_228, YemiJoy2021_227, Darko_225, Maby2021_226, Amataga_227, Lukilu_217, Latch_226, Yassified_223, Gizmo_232, PurduePete_226, Shnickers_225, DirtMonster_219, Mangeria_227, Bigswole_231, Shelob_227, Burrough_228, Issimir_222, Shaqnato_217, StephanieG_222, Chargie21_223, Spec_221, EasyJones_229, TinyTim_224, LolaVinca_224, Grungle_210, Capablanca_231, SmallFry_227, Jaygup_223, Jedediah_227, ScottMcG_220, Shrimp_228, Atlantean_226, ChickenPhender_222, Erdmann_227, ArcherS7_227, Ngannou_223, Cali_219, RoMag_221, Pier_227, Rahel_228, Delilah_224, Sprinklers_224, DrPhinkDaddy_223, Astraea_220, Kamryn_225, Nappy_228, McGee_226, Bxz1_215, Ronan_222, Catera_218, Bread_221, Ewok_225, ParkTD_225, Specks_230, MikeLiesIn_228, Tortoise16_224, Ading_228, Megamind_223, Derek_224, Rizal_218, Jemmno_226, Phlegm_230, Napoleon13_223, FrayBell_229, Pleione_230, Izajani_224, Fludd_226, Bonray_228, Zalkecks_225, Trinitium_222, Adlitam_226, Nidhogg_227, Phox_227, Zeenon_228, Sauce_223, BananaFence_223, MoMoMixon_224, JulietS_219, Turret_219, Gabriel_229, Janiyra_229, YoungMoneyMata_226, NoodleTree_232, EmmaElysia_231, Salacia_228, Dandelion_234, Chomp_225, Teardrop_224, NuevoMundo_229, Naval22_231, Wally_224, I3_236, Babyland_229, Ava3_225, Pio_234, Phusco_225, StubbySaigey_231, EmToTheThree_226, IkeLoa_219, Iota_221, InigoMontoya_229, Morizzled23_223, Koguma_225, LinStu_225, LifeSavor_226, Concombre_231, ZygoTaiga_223, Khaleesi_225, Cactojaque_222, Momo_227, SrishMeg2525_223, Daffodil_231, Melpomini_221, InterFolia_229, Lee7_226, Essence_224, Tyke_225, FudgeTart_221, McWolfish_223, QBert_218, Bipolarisk_224, Yucca_226, Willis_227, Littleton_229, Quasimodo_229
- Track 2 : Sebata_229, Colt_218, JayJay_225, Alice_213, BackyardAgain_223, Flabslab_222, Cane17_218, Blackbrain_224, Stubby_210, Blubba_223
- Track 3 : Pinkcreek_210, ET08_214, Rabinovish_219
- Track 4 : Shifa_204, HyRo_213
- Track 5 : Tonenili_248

- Track 6 : Myrna_217
- Track 7 : Greely_223
- Track 8 : ScoobyDoobyDoo_215
- Track 9 : Phabba_227
- Track 10 : Pupper_165, SCentae_164, CherryTomatoes_170
- Track 11 : Skog_225

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

The start number called the most often in the published annotations is 9, it was called in 168 of the 173 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_228, Adlitam_226, Alice_213, Amataga_227, ArcherS7_227, Asterius_222, Astraea_220, Atlantean_226, Audrick_228, Ava3_225, Babyland_229, BackyardAgain_223, BadAgartude_220, BananaFence_223, Bangla1971_227, Basquiat_223, BeanWater_219, BigCity_235, Bigswole_231, Bipolarisk_224, Blackbrain_224, Blubba_223, Bonray_228, Bread_221, Breeniome_225, Burrough_228, Bxz1_215, Cactojaque_222, Cali_219, Cane17_218, Capablanca_231, Caravan_217, Catera_218, Chargie21_223, CharlieB_220, ChaylaJr_225, ChickenPhender_222, Chomp_225, CindyLou_227, Colt_218, Concombre_231, DTDevon_229, Daffodil_231, Dandelion_234, Darko_225, Delilah_224, Delylah_228, Derek_224, Dietrick_215, DirtMonster_219, DrPhinkDaddy_223, Drazdys_225, ET08_214, EasyJones_229, EggyFarm_235, EmToTheThree_226, EmmaElysia_231, Erdmann_227, ErnieJ_219, Essence_224, Ewok_225, Flabslab_222, Fludd_226, FoxtrotP1_224, FrayBell_229, FudgeTart_221, Gabriel_229, Gangam_227, Ghost_227, Gizmo_232, Grasshills_234, Grungle_210, Guwapp_222, HyRo_213, I3_236, IkeLoa_219, InigoMontoya_229, InterFolia_229, Iota_221, Issimir_222, Izajani_224, JPickles_223, Janiyra_229, JayJay_225, Jaygup_223, Jedediah_227, Jemmno_226, Jessibeth14_226, JulietS_219, JustHall_220, Kamryn_225, Kboogie_230, Khaleesi_225, Koguma_225, LRRHood_219, Latch_226, Lee7_226, LifeSavor_226, LinStu_225, Littleton_229, Loanshark_223, LolaVinca_224, LordLeafolot_228, Lukilu_217, Maby2021_226, Mangeria_227, Matsumoto_225, McGee_226, McWolfish_223, Megamind_223, Melpomini_221, MikeLiesIn_228, Mikro_222, MoMoMixon_224, Momo_227, Morizzled23_223, Naija_227, Napoleon13_223, Nappy_228, Naval22_231, NedWong_225, Ngannou_223, Nidhogg_227, NoodleTree_232, Norm_226, NuevoMundo_229, ParkTD_225, Patter_228, Phlegm_230, Phox_227, Phusco_225, Pier_227, Pinkcreek_210, Pio_234, Pivoine_227, Pleione_230, PurduePete_226, QBert_218, Quasimodo_229, Rabinovish_219, Rahel_228, Rizal_218, RoMag_221, Ronan_222, Roots515_228, Salacia_228, Sauce_223, ScoobyDoobyDoo_215, ScottMcG_220, Sebata_229, Shaqnato_217, Shelob_227, ShiaLabeouf_224, Shifa_204, Shnickers_225, Shrimp_228, SilverDipper_230, SmallFry_227, Spec_221, Specks_230, Sprinklers_224, Spud_220, SrishMeg2525_223, StephanieG_222, StubbySaigey_231, Stubby_210, Teardrop_224, TinyTim_224, Tonenili_248, Tortoise16_224, Trinitium_222, Turret_219, Tyke_225, ValleyTerrace_227, Wally_224, Willis_227, Yassified_223, YemiJoy2021_227, YoungMoneyMata_226, Yucca_226, Zalkecks_225, Zeenon_228, ZygoTaiga_223,

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

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

• CherryTomatoes_170, Greely_223, Myrna_217, Phabba_227, Pupper_165, SCentae_164, Skog_225,

Summary by start number:

Start 9:

- Found in 183 of 190 (96.3%) of genes in pham
- Manual Annotations of this start: 168 of 173
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ading_228 (C1), Adlitam_226 (C1), Alice_213 (C1), Amataga_227 (C1), ArcherS7_227 (C1), Asterius_222 (C1), Astraea_220 (C1), Atlantean_226 (C1), Audrick_228 (C1), Ava3_225 (C1), Babyland_229 (C1), BackyardAgain_223 (C1), BadAgartude_220 (C1), BananaFence_223 (C1), Bangla1971_227 (C1), Basquiat_223 (C1), BeanWater_219 (C1), BigCity_235 (C1), Bigswole_231 (C1), Bipolarisk_224 (C1), Blackbrain_224 (C1), Blubba_223 (C1), Bonray_228 (C1), Bread_221 (C1), Breeniome_225 (C1), Burrough_228 (C1), Bxz1_215 (C1), Cactojaque_222 (C1), Cali_219 (C1), Cane17_218 (C1), Capablanca_231 (C1), Caravan_217 (C1), Catera_218 (C1), Chargie21_223 (C1), CharlieB_220 (C1), ChaylaJr_225 (C1), ChickenPhender_222 (C1), Chomp_225 (C1), CindyLou_227 (C1), Colt_218 (C1), Concombre_231 (C1), DTDevon_229 (C1), Daffodil_231 (C1), Dandelion_234 (C1), Darko_225 (C1), Delilah_224 (C1), Delylah_228 (C1), Derek_224 (C1), Dietrick_215 (C1), DirtMonster_219 (C1), DrPhinkDaddy_223 (C1), Drazdys_225 (C1), ET08_214 (C1), EasyJones_229 (C1), EggyFarm_235 (C1), EmToTheThree_226 (C1), EmmaElysia_231 (C1), Erdmann_227 (C1), ErnieJ_219 (C1), Essence_224 (C1), Ewok_225 (C1), Flabslab_222 (C1), Fludd_226 (C1), FoxtrotP1_224 (C1), FrayBell_229 (C1), FudgeTart_221 (C1), Gabriel_229 (C1), Gamgam_227 (C1), Ghost_227 (C1), Gizmo_232 (C1), Grasshills_234 (C1), Grungle_210 (C1), Guwapp_222 (C1), HyRo_213 (C1), I3_236 (C1), IkeLoa_219 (C1), InigoMontoya_229 (C1), InterFolia_229 (C1), Iota_221 (C1), Issimir_222 (C1), Izajani_224 (C1), JPickles_223 (C1), Janiyr_229 (C1), JayJay_225 (C1), Jaygup_223 (C1), Jedediah_227 (C1), Jemmno_226 (C1), Jessibeth14_226 (C1), JulietS_219 (C1), JustHall_220 (C1), Kamryn_225 (C1), Kboogie_230 (C1), Khaleesi_225 (C1), Koguma_225 (C1), LRRHood_219 (C1), Latch_226 (C1), Lee7_226 (C1), LifeSavor_226 (C1), LinStu_225 (C1), Littleton_229 (C1), Loanshark_223 (C1), LolaVinca_224 (C1), LordLeafolot_228 (C1), Lukilu_217 (C1), Maby2021_226 (C1), Mangeria_227 (C1), Matsumoto_225 (C1), McGee_226 (C1), McWolfish_223 (C1), Megamind_223 (C1), Melpomini_221 (C1), MikeLiesIn_228 (C1), Mikro_222 (C1), MoMoMixon_224 (C1), Momo_227 (C1), Morizzled23_223 (C1), Naija_227 (C1), Napoleon13_223 (C1), Nappy_228 (C1), Naval22_231 (C1), NedWong_225 (C1), Ngannou_223 (C1), Nidhogg_227 (C1), NoodleTree_232 (C1), Norm_226 (C1), NuevoMundo_229 (C1), ParkTD_225 (C1), Patter_228 (C1), Phlegm_230 (C1), Phox_227 (C1), Phusco_225 (C1), Pier_227 (C1), Pinkcreek_210 (C1), Pio_234 (C1), Pivoine_227 (C1), Pleione_230 (C1), PurduePete_226 (C1), QBert_218 (C1), Quasimodo_229 (C1), Rabinovish_219 (C1), Rahel_228 (C1), Rizal_218 (C1), RoMag_221 (C1), Ronan_222 (C1), Roots515_228 (C1), Salacia_228 (C1), Sauce_223 (C1), ScoobyDoobyDoo_215 (C2), ScottMcG_220 (C1), Sebata_229 (C1), Shaqnato_217 (C1), Shelob_227 (C1), ShiaLabeouf_224 (C1), Shifa_204 (C1), Shnickers_225 (C1), Shrimp_228 (C1), SilverDipper_230 (C1), SmallFry_227 (C1), Spec_221 (C1), Specks_230 (C1), Sprinklers_224 (C1),

Spud_220 (C1), SrishMeg2525_223 (C1), StephanieG_222 (C1), StubbySaigey_231 (C1), Stubby_210 (C1), Teardrop_224 (C1), TinyTim_224 (C1), Tonenili_248 (C1), Tortoise16_224 (C1), Trinitium_222 (C1), Turret_219 (C1), Tyke_225 (C1), ValleyTerrace_227 (C1), Wally_224 (C1), Willis_227 (C1), Yassified_223 (C1), YemiJoy2021_227 (C1), YoungMoneyMata_226 (C1), Yucca_226 (C1), Zalkecks_225 (C1), Zeenon_228 (C1), ZygoTaiga_223 (C1),

Start 10:

- Found in 1 of 190 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 173
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Myrna_217 (C2),

Start 11:

- Found in 2 of 190 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 173
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_223 (C2), Phabba_227 (C2),

Start 14:

- Found in 4 of 190 (2.1%) of genes in pham
- Manual Annotations of this start: 3 of 173
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_170 (DO), Pupper_165 (DO), SCentae_164 (DO), Skog_225 (DO),

Summary by clusters:

There are 3 clusters represented in this pham: C2, C1, DO,

Info for manual annotations of cluster C1:

- Start number 9 was manually annotated 167 times for cluster C1.

Info for manual annotations of cluster C2:

- Start number 9 was manually annotated 1 time for cluster C2.
- Start number 10 was manually annotated 1 time for cluster C2.
- Start number 11 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster DO:

- Start number 14 was manually annotated 3 times for cluster DO.

Gene Information:

Gene: Ading_228 Start: 128271, Stop: 128714, Start Num: 9

Candidate Starts for Ading_228:

(Start: 9 @128271 has 168 MA's), (17, 128442), (20, 128475), (27, 128580), (35, 128697),

Gene: Adlitam_226 Start: 126875, Stop: 127318, Start Num: 9

Candidate Starts for Adlitam_226:

(Start: 9 @126875 has 168 MA's), (17, 127046), (20, 127079), (27, 127184), (35, 127301),

Gene: Alice_213 Start: 125065, Stop: 125508, Start Num: 9
Candidate Starts for Alice_213:
(Start: 9 @125065 has 168 MA's), (17, 125236), (20, 125269), (27, 125374), (35, 125491),

Gene: Amataga_227 Start: 125874, Stop: 126317, Start Num: 9
Candidate Starts for Amataga_227:
(Start: 9 @125874 has 168 MA's), (17, 126045), (20, 126078), (27, 126183), (35, 126300),

Gene: ArcherS7_227 Start: 127619, Stop: 128062, Start Num: 9
Candidate Starts for ArcherS7_227:
(Start: 9 @127619 has 168 MA's), (17, 127790), (20, 127823), (27, 127928), (35, 128045),

Gene: Asterius_222 Start: 126283, Stop: 126726, Start Num: 9
Candidate Starts for Asterius_222:
(Start: 9 @126283 has 168 MA's), (17, 126454), (20, 126487), (27, 126592), (35, 126709),

Gene: Astraea_220 Start: 125478, Stop: 125921, Start Num: 9
Candidate Starts for Astraea_220:
(Start: 9 @125478 has 168 MA's), (17, 125649), (20, 125682), (27, 125787), (35, 125904),

Gene: Atlantean_226 Start: 125874, Stop: 126317, Start Num: 9
Candidate Starts for Atlantean_226:
(Start: 9 @125874 has 168 MA's), (17, 126045), (20, 126078), (27, 126183), (35, 126300),

Gene: Audrick_228 Start: 125764, Stop: 126207, Start Num: 9
Candidate Starts for Audrick_228:
(Start: 9 @125764 has 168 MA's), (17, 125935), (20, 125968), (27, 126073), (35, 126190),

Gene: Ava3_225 Start: 126333, Stop: 126776, Start Num: 9
Candidate Starts for Ava3_225:
(Start: 9 @126333 has 168 MA's), (17, 126504), (20, 126537), (27, 126642), (35, 126759),

Gene: Babyland_229 Start: 126651, Stop: 127094, Start Num: 9
Candidate Starts for Babyland_229:
(Start: 9 @126651 has 168 MA's), (17, 126822), (20, 126855), (27, 126960), (35, 127077),

Gene: BackyardAgain_223 Start: 124025, Stop: 124468, Start Num: 9
Candidate Starts for BackyardAgain_223:
(Start: 9 @124025 has 168 MA's), (17, 124196), (20, 124229), (27, 124334), (35, 124451),

Gene: BadAgartude_220 Start: 125964, Stop: 126407, Start Num: 9
Candidate Starts for BadAgartude_220:
(Start: 9 @125964 has 168 MA's), (17, 126135), (20, 126168), (27, 126273), (35, 126390),

Gene: BananaFence_223 Start: 126107, Stop: 126550, Start Num: 9
Candidate Starts for BananaFence_223:
(Start: 9 @126107 has 168 MA's), (17, 126278), (20, 126311), (27, 126416), (35, 126533),

Gene: Bangla1971_227 Start: 126583, Stop: 127026, Start Num: 9
Candidate Starts for Bangla1971_227:
(Start: 9 @126583 has 168 MA's), (17, 126754), (20, 126787), (27, 126892), (35, 127009),

Gene: Basquiat_223 Start: 124393, Stop: 124836, Start Num: 9

Candidate Starts for Basquiat_223:

(Start: 9 @124393 has 168 MA's), (17, 124564), (20, 124597), (27, 124702), (35, 124819),

Gene: BeanWater_219 Start: 125720, Stop: 126163, Start Num: 9

Candidate Starts for BeanWater_219:

(Start: 9 @125720 has 168 MA's), (17, 125891), (20, 125924), (27, 126029), (35, 126146),

Gene: BigCity_235 Start: 128479, Stop: 128922, Start Num: 9

Candidate Starts for BigCity_235:

(Start: 9 @128479 has 168 MA's), (17, 128650), (20, 128683), (27, 128788), (35, 128905),

Gene: Bigswole_231 Start: 128442, Stop: 128885, Start Num: 9

Candidate Starts for Bigswole_231:

(Start: 9 @128442 has 168 MA's), (17, 128613), (20, 128646), (27, 128751), (35, 128868),

Gene: Bipolarisk_224 Start: 126602, Stop: 127045, Start Num: 9

Candidate Starts for Bipolarisk_224:

(Start: 9 @126602 has 168 MA's), (17, 126773), (20, 126806), (27, 126911), (35, 127028),

Gene: Blackbrain_224 Start: 126170, Stop: 126613, Start Num: 9

Candidate Starts for Blackbrain_224:

(Start: 9 @126170 has 168 MA's), (17, 126341), (20, 126374), (27, 126479), (35, 126596),

Gene: Blubba_223 Start: 129746, Stop: 130189, Start Num: 9

Candidate Starts for Blubba_223:

(Start: 9 @129746 has 168 MA's), (17, 129917), (20, 129950), (27, 130055), (35, 130172),

Gene: Bonray_228 Start: 127970, Stop: 128413, Start Num: 9

Candidate Starts for Bonray_228:

(Start: 9 @127970 has 168 MA's), (17, 128141), (20, 128174), (27, 128279), (35, 128396),

Gene: Bread_221 Start: 125977, Stop: 126420, Start Num: 9

Candidate Starts for Bread_221:

(Start: 9 @125977 has 168 MA's), (17, 126148), (20, 126181), (27, 126286), (35, 126403),

Gene: Breeniome_225 Start: 125431, Stop: 125874, Start Num: 9

Candidate Starts for Breeniome_225:

(Start: 9 @125431 has 168 MA's), (17, 125602), (20, 125635), (27, 125740), (35, 125857),

Gene: Burrough_228 Start: 127747, Stop: 128190, Start Num: 9

Candidate Starts for Burrough_228:

(Start: 9 @127747 has 168 MA's), (17, 127918), (20, 127951), (27, 128056), (35, 128173),

Gene: Bxz1_215 Start: 127953, Stop: 128396, Start Num: 9

Candidate Starts for Bxz1_215:

(Start: 9 @127953 has 168 MA's), (17, 128124), (20, 128157), (27, 128262), (35, 128379),

Gene: Cactojaque_222 Start: 125116, Stop: 125559, Start Num: 9

Candidate Starts for Cactojaque_222:

(Start: 9 @125116 has 168 MA's), (17, 125287), (20, 125320), (27, 125425), (35, 125542),

Gene: Cali_219 Start: 126345, Stop: 126788, Start Num: 9

Candidate Starts for Cali_219:

(Start: 9 @126345 has 168 MA's), (17, 126516), (20, 126549), (27, 126654), (35, 126771),

Gene: Cane17_218 Start: 130155, Stop: 130598, Start Num: 9

Candidate Starts for Cane17_218:

(Start: 9 @130155 has 168 MA's), (17, 130326), (20, 130359), (27, 130464), (35, 130581),

Gene: Capablanca_231 Start: 128599, Stop: 129042, Start Num: 9

Candidate Starts for Capablanca_231:

(Start: 9 @128599 has 168 MA's), (17, 128770), (20, 128803), (27, 128908), (35, 129025),

Gene: Caravan_217 Start: 126685, Stop: 127128, Start Num: 9

Candidate Starts for Caravan_217:

(Start: 9 @126685 has 168 MA's), (17, 126856), (20, 126889), (27, 126994), (35, 127111),

Gene: Catera_218 Start: 125087, Stop: 125530, Start Num: 9

Candidate Starts for Catera_218:

(Start: 9 @125087 has 168 MA's), (17, 125258), (20, 125291), (27, 125396), (35, 125513),

Gene: Chargie21_223 Start: 124393, Stop: 124836, Start Num: 9

Candidate Starts for Chargie21_223:

(Start: 9 @124393 has 168 MA's), (17, 124564), (20, 124597), (27, 124702), (35, 124819),

Gene: CharlieB_220 Start: 126099, Stop: 126542, Start Num: 9

Candidate Starts for CharlieB_220:

(Start: 9 @126099 has 168 MA's), (17, 126270), (20, 126303), (27, 126408), (35, 126525),

Gene: ChaylaJr_225 Start: 125784, Stop: 126227, Start Num: 9

Candidate Starts for ChaylaJr_225:

(Start: 9 @125784 has 168 MA's), (17, 125955), (20, 125988), (27, 126093), (35, 126210),

Gene: CherryTomatoes_170 Start: 117404, Stop: 117775, Start Num: 14

Candidate Starts for CherryTomatoes_170:

(Start: 14 @117404 has 3 MA's), (15, 117440), (24, 117554), (26, 117578),

Gene: ChickenPhender_222 Start: 124540, Stop: 124983, Start Num: 9

Candidate Starts for ChickenPhender_222:

(Start: 9 @124540 has 168 MA's), (17, 124711), (20, 124744), (27, 124849), (35, 124966),

Gene: Chomp_225 Start: 127976, Stop: 128419, Start Num: 9

Candidate Starts for Chomp_225:

(Start: 9 @127976 has 168 MA's), (17, 128147), (20, 128180), (27, 128285), (35, 128402),

Gene: CindyLou_227 Start: 128236, Stop: 128679, Start Num: 9

Candidate Starts for CindyLou_227:

(Start: 9 @128236 has 168 MA's), (17, 128407), (20, 128440), (27, 128545), (35, 128662),

Gene: Colt_218 Start: 129386, Stop: 129829, Start Num: 9

Candidate Starts for Colt_218:

(Start: 9 @129386 has 168 MA's), (17, 129557), (20, 129590), (27, 129695), (35, 129812),

Gene: Concombre_231 Start: 128130, Stop: 128573, Start Num: 9

Candidate Starts for Concombre_231:

(Start: 9 @128130 has 168 MA's), (17, 128301), (20, 128334), (27, 128439), (35, 128556),

Gene: DTDevon_229 Start: 128615, Stop: 129058, Start Num: 9

Candidate Starts for DTDevon_229:

(Start: 9 @128615 has 168 MA's), (17, 128786), (20, 128819), (27, 128924), (35, 129041),

Gene: Daffodil_231 Start: 126902, Stop: 127345, Start Num: 9

Candidate Starts for Daffodil_231:

(Start: 9 @126902 has 168 MA's), (17, 127073), (20, 127106), (27, 127211), (35, 127328),

Gene: Dandelion_234 Start: 129505, Stop: 129948, Start Num: 9

Candidate Starts for Dandelion_234:

(Start: 9 @129505 has 168 MA's), (17, 129676), (20, 129709), (27, 129814), (35, 129931),

Gene: Darko_225 Start: 126111, Stop: 126554, Start Num: 9

Candidate Starts for Darko_225:

(Start: 9 @126111 has 168 MA's), (17, 126282), (20, 126315), (27, 126420), (35, 126537),

Gene: Delilah_224 Start: 126995, Stop: 127438, Start Num: 9

Candidate Starts for Delilah_224:

(Start: 9 @126995 has 168 MA's), (17, 127166), (20, 127199), (27, 127304), (35, 127421),

Gene: Delylah_228 Start: 127309, Stop: 127752, Start Num: 9

Candidate Starts for Delylah_228:

(Start: 9 @127309 has 168 MA's), (17, 127480), (20, 127513), (27, 127618), (35, 127735),

Gene: Derek_224 Start: 127253, Stop: 127696, Start Num: 9

Candidate Starts for Derek_224:

(Start: 9 @127253 has 168 MA's), (17, 127424), (20, 127457), (27, 127562), (35, 127679),

Gene: Dietrick_215 Start: 125116, Stop: 125559, Start Num: 9

Candidate Starts for Dietrick_215:

(Start: 9 @125116 has 168 MA's), (17, 125287), (20, 125320), (27, 125425), (35, 125542),

Gene: DirtMonster_219 Start: 126454, Stop: 126897, Start Num: 9

Candidate Starts for DirtMonster_219:

(Start: 9 @126454 has 168 MA's), (17, 126625), (20, 126658), (27, 126763), (35, 126880),

Gene: DrPhinkDaddy_223 Start: 127680, Stop: 128123, Start Num: 9

Candidate Starts for DrPhinkDaddy_223:

(Start: 9 @127680 has 168 MA's), (17, 127851), (20, 127884), (27, 127989), (35, 128106),

Gene: Drazdys_225 Start: 127260, Stop: 127703, Start Num: 9

Candidate Starts for Drazdys_225:

(Start: 9 @127260 has 168 MA's), (17, 127431), (20, 127464), (27, 127569), (35, 127686),

Gene: ET08_214 Start: 126170, Stop: 126613, Start Num: 9

Candidate Starts for ET08_214:

(Start: 9 @126170 has 168 MA's), (17, 126341), (20, 126374), (27, 126479), (29, 126503), (35, 126596),

Gene: EasyJones_229 Start: 125636, Stop: 126079, Start Num: 9

Candidate Starts for EasyJones_229:

(Start: 9 @125636 has 168 MA's), (17, 125807), (20, 125840), (27, 125945), (35, 126062),

Gene: EggyFarm_235 Start: 128480, Stop: 128923, Start Num: 9
Candidate Starts for EggyFarm_235:
(Start: 9 @128480 has 168 MA's), (17, 128651), (20, 128684), (27, 128789), (35, 128906),

Gene: EmToTheThree_226 Start: 127019, Stop: 127462, Start Num: 9
Candidate Starts for EmToTheThree_226:
(Start: 9 @127019 has 168 MA's), (17, 127190), (20, 127223), (27, 127328), (35, 127445),

Gene: EmmaElysia_231 Start: 128131, Stop: 128574, Start Num: 9
Candidate Starts for EmmaElysia_231:
(Start: 9 @128131 has 168 MA's), (17, 128302), (20, 128335), (27, 128440), (35, 128557),

Gene: Erdmann_227 Start: 126987, Stop: 127430, Start Num: 9
Candidate Starts for Erdmann_227:
(Start: 9 @126987 has 168 MA's), (17, 127158), (20, 127191), (27, 127296), (35, 127413),

Gene: ErnieJ_219 Start: 123815, Stop: 124258, Start Num: 9
Candidate Starts for ErnieJ_219:
(Start: 9 @123815 has 168 MA's), (17, 123986), (20, 124019), (27, 124124), (35, 124241),

Gene: Essence_224 Start: 126472, Stop: 126915, Start Num: 9
Candidate Starts for Essence_224:
(Start: 9 @126472 has 168 MA's), (17, 126643), (20, 126676), (27, 126781), (35, 126898),

Gene: Ewok_225 Start: 126930, Stop: 127373, Start Num: 9
Candidate Starts for Ewok_225:
(Start: 9 @126930 has 168 MA's), (17, 127101), (20, 127134), (27, 127239), (35, 127356),

Gene: Flabslab_222 Start: 124146, Stop: 124589, Start Num: 9
Candidate Starts for Flabslab_222:
(Start: 9 @124146 has 168 MA's), (17, 124317), (20, 124350), (27, 124455), (35, 124572),

Gene: Fludd_226 Start: 125348, Stop: 125791, Start Num: 9
Candidate Starts for Fludd_226:
(Start: 9 @125348 has 168 MA's), (17, 125519), (20, 125552), (27, 125657), (35, 125774),

Gene: FoxtrotP1_224 Start: 127573, Stop: 128016, Start Num: 9
Candidate Starts for FoxtrotP1_224:
(Start: 9 @127573 has 168 MA's), (17, 127744), (20, 127777), (27, 127882), (35, 127999),

Gene: FrayBell_229 Start: 125536, Stop: 125979, Start Num: 9
Candidate Starts for FrayBell_229:
(Start: 9 @125536 has 168 MA's), (17, 125707), (20, 125740), (27, 125845), (35, 125962),

Gene: FudgeTart_221 Start: 126077, Stop: 126520, Start Num: 9
Candidate Starts for FudgeTart_221:
(Start: 9 @126077 has 168 MA's), (17, 126248), (20, 126281), (27, 126386), (35, 126503),

Gene: Gabriel_229 Start: 125507, Stop: 125950, Start Num: 9
Candidate Starts for Gabriel_229:
(Start: 9 @125507 has 168 MA's), (17, 125678), (20, 125711), (27, 125816), (35, 125933),

Gene: Gamgam_227 Start: 125864, Stop: 126307, Start Num: 9
Candidate Starts for Gamgam_227:
(Start: 9 @125864 has 168 MA's), (17, 126035), (20, 126068), (27, 126173), (35, 126290),

Gene: Ghost_227 Start: 126488, Stop: 126931, Start Num: 9
Candidate Starts for Ghost_227:
(Start: 9 @126488 has 168 MA's), (17, 126659), (20, 126692), (27, 126797), (35, 126914),

Gene: Gizmo_232 Start: 128903, Stop: 129346, Start Num: 9
Candidate Starts for Gizmo_232:
(Start: 9 @128903 has 168 MA's), (17, 129074), (20, 129107), (27, 129212), (35, 129329),

Gene: Grasshills_234 Start: 128479, Stop: 128922, Start Num: 9
Candidate Starts for Grasshills_234:
(Start: 9 @128479 has 168 MA's), (17, 128650), (20, 128683), (27, 128788), (35, 128905),

Gene: Greely_223 Start: 125464, Stop: 125937, Start Num: 11
Candidate Starts for Greely_223:
(2, 125293), (3, 125320), (5, 125377), (Start: 11 @125464 has 1 MA's), (12, 125527), (20, 125656),
(23, 125698), (25, 125722), (26, 125737), (27, 125770), (32, 125893), (34, 125911),

Gene: Grungle_210 Start: 123810, Stop: 124253, Start Num: 9
Candidate Starts for Grungle_210:
(Start: 9 @123810 has 168 MA's), (17, 123981), (20, 124014), (27, 124119), (35, 124236),

Gene: Guwapp_222 Start: 125322, Stop: 125765, Start Num: 9
Candidate Starts for Guwapp_222:
(Start: 9 @125322 has 168 MA's), (17, 125493), (20, 125526), (27, 125631), (35, 125748),

Gene: HyRo_213 Start: 125830, Stop: 126273, Start Num: 9
Candidate Starts for HyRo_213:
(Start: 9 @125830 has 168 MA's), (17, 126001), (20, 126034), (27, 126139), (35, 126256),

Gene: I3_236 Start: 127678, Stop: 128121, Start Num: 9
Candidate Starts for I3_236:
(Start: 9 @127678 has 168 MA's), (17, 127849), (20, 127882), (27, 127987), (35, 128104),

Gene: IkeLoa_219 Start: 126220, Stop: 126663, Start Num: 9
Candidate Starts for IkeLoa_219:
(Start: 9 @126220 has 168 MA's), (17, 126391), (20, 126424), (27, 126529), (35, 126646),

Gene: InigoMontoya_229 Start: 126538, Stop: 126981, Start Num: 9
Candidate Starts for InigoMontoya_229:
(Start: 9 @126538 has 168 MA's), (17, 126709), (20, 126742), (27, 126847), (35, 126964),

Gene: InterFolia_229 Start: 127341, Stop: 127784, Start Num: 9
Candidate Starts for InterFolia_229:
(Start: 9 @127341 has 168 MA's), (17, 127512), (20, 127545), (27, 127650), (35, 127767),

Gene: Iota_221 Start: 126248, Stop: 126691, Start Num: 9
Candidate Starts for Iota_221:
(Start: 9 @126248 has 168 MA's), (17, 126419), (20, 126452), (27, 126557), (35, 126674),

Gene: Issimir_222 Start: 126176, Stop: 126619, Start Num: 9
Candidate Starts for Issimir_222:
(Start: 9 @126176 has 168 MA's), (17, 126347), (20, 126380), (27, 126485), (35, 126602),

Gene: Izajani_224 Start: 127070, Stop: 127513, Start Num: 9
Candidate Starts for Izajani_224:
(Start: 9 @127070 has 168 MA's), (17, 127241), (20, 127274), (27, 127379), (35, 127496),

Gene: JPickles_223 Start: 125226, Stop: 125669, Start Num: 9
Candidate Starts for JPickles_223:
(Start: 9 @125226 has 168 MA's), (17, 125397), (20, 125430), (27, 125535), (35, 125652),

Gene: Janiyra_229 Start: 126763, Stop: 127206, Start Num: 9
Candidate Starts for Janiyra_229:
(Start: 9 @126763 has 168 MA's), (17, 126934), (20, 126967), (27, 127072), (35, 127189),

Gene: JayJay_225 Start: 126653, Stop: 127096, Start Num: 9
Candidate Starts for JayJay_225:
(Start: 9 @126653 has 168 MA's), (17, 126824), (20, 126857), (27, 126962), (35, 127079),

Gene: Jaygup_223 Start: 126397, Stop: 126840, Start Num: 9
Candidate Starts for Jaygup_223:
(Start: 9 @126397 has 168 MA's), (17, 126568), (20, 126601), (27, 126706), (35, 126823),

Gene: Jedediah_227 Start: 127450, Stop: 127893, Start Num: 9
Candidate Starts for Jedediah_227:
(Start: 9 @127450 has 168 MA's), (17, 127621), (20, 127654), (27, 127759), (35, 127876),

Gene: Jemmno_226 Start: 126169, Stop: 126612, Start Num: 9
Candidate Starts for Jemmno_226:
(Start: 9 @126169 has 168 MA's), (17, 126340), (20, 126373), (27, 126478), (35, 126595),

Gene: Jessibeth14_226 Start: 127645, Stop: 128088, Start Num: 9
Candidate Starts for Jessibeth14_226:
(Start: 9 @127645 has 168 MA's), (17, 127816), (20, 127849), (27, 127954), (35, 128071),

Gene: JulietS_219 Start: 123749, Stop: 124192, Start Num: 9
Candidate Starts for JulietS_219:
(Start: 9 @123749 has 168 MA's), (17, 123920), (20, 123953), (27, 124058), (35, 124175),

Gene: JustHall_220 Start: 125699, Stop: 126142, Start Num: 9
Candidate Starts for JustHall_220:
(Start: 9 @125699 has 168 MA's), (17, 125870), (20, 125903), (27, 126008), (35, 126125),

Gene: Kamryn_225 Start: 127289, Stop: 127732, Start Num: 9
Candidate Starts for Kamryn_225:
(Start: 9 @127289 has 168 MA's), (17, 127460), (20, 127493), (27, 127598), (35, 127715),

Gene: Kboogie_230 Start: 126328, Stop: 126771, Start Num: 9
Candidate Starts for Kboogie_230:
(Start: 9 @126328 has 168 MA's), (17, 126499), (20, 126532), (27, 126637), (35, 126754),

Gene: Khaleesi_225 Start: 127112, Stop: 127555, Start Num: 9

Candidate Starts for Khaleesi_225:

(Start: 9 @127112 has 168 MA's), (17, 127283), (20, 127316), (27, 127421), (35, 127538),

Gene: Koguma_225 Start: 125969, Stop: 126412, Start Num: 9

Candidate Starts for Koguma_225:

(Start: 9 @125969 has 168 MA's), (17, 126140), (20, 126173), (27, 126278), (35, 126395),

Gene: LRRHood_219 Start: 125321, Stop: 125764, Start Num: 9

Candidate Starts for LRRHood_219:

(Start: 9 @125321 has 168 MA's), (17, 125492), (20, 125525), (27, 125630), (35, 125747),

Gene: Latch_226 Start: 125874, Stop: 126317, Start Num: 9

Candidate Starts for Latch_226:

(Start: 9 @125874 has 168 MA's), (17, 126045), (20, 126078), (27, 126183), (35, 126300),

Gene: Lee7_226 Start: 128526, Stop: 128969, Start Num: 9

Candidate Starts for Lee7_226:

(Start: 9 @128526 has 168 MA's), (17, 128697), (20, 128730), (27, 128835), (35, 128952),

Gene: LifeSavor_226 Start: 127102, Stop: 127545, Start Num: 9

Candidate Starts for LifeSavor_226:

(Start: 9 @127102 has 168 MA's), (17, 127273), (20, 127306), (27, 127411), (35, 127528),

Gene: LinStu_225 Start: 125605, Stop: 126048, Start Num: 9

Candidate Starts for LinStu_225:

(Start: 9 @125605 has 168 MA's), (17, 125776), (20, 125809), (27, 125914), (35, 126031),

Gene: Littleton_229 Start: 127111, Stop: 127554, Start Num: 9

Candidate Starts for Littleton_229:

(Start: 9 @127111 has 168 MA's), (17, 127282), (20, 127315), (27, 127420), (35, 127537),

Gene: Loanshark_223 Start: 126461, Stop: 126904, Start Num: 9

Candidate Starts for Loanshark_223:

(Start: 9 @126461 has 168 MA's), (17, 126632), (20, 126665), (27, 126770), (35, 126887),

Gene: LolaVinca_224 Start: 126771, Stop: 127214, Start Num: 9

Candidate Starts for LolaVinca_224:

(Start: 9 @126771 has 168 MA's), (17, 126942), (20, 126975), (27, 127080), (35, 127197),

Gene: LordLeafolot_228 Start: 126384, Stop: 126827, Start Num: 9

Candidate Starts for LordLeafolot_228:

(Start: 9 @126384 has 168 MA's), (17, 126555), (20, 126588), (27, 126693), (35, 126810),

Gene: Lukilu_217 Start: 127324, Stop: 127767, Start Num: 9

Candidate Starts for Lukilu_217:

(Start: 9 @127324 has 168 MA's), (17, 127495), (20, 127528), (27, 127633), (35, 127750),

Gene: Maby2021_226 Start: 127565, Stop: 128008, Start Num: 9

Candidate Starts for Maby2021_226:

(Start: 9 @127565 has 168 MA's), (17, 127736), (20, 127769), (27, 127874), (35, 127991),

Gene: Mangeria_227 Start: 127667, Stop: 128110, Start Num: 9

Candidate Starts for Mangeria_227:

(Start: 9 @127667 has 168 MA's), (17, 127838), (20, 127871), (27, 127976), (35, 128093),

Gene: Matsumoto_225 Start: 126316, Stop: 126759, Start Num: 9

Candidate Starts for Matsumoto_225:

(Start: 9 @126316 has 168 MA's), (17, 126487), (20, 126520), (27, 126625), (35, 126742),

Gene: McGee_226 Start: 126213, Stop: 126656, Start Num: 9

Candidate Starts for McGee_226:

(Start: 9 @126213 has 168 MA's), (17, 126384), (20, 126417), (27, 126522), (35, 126639),

Gene: McWolfish_223 Start: 126323, Stop: 126766, Start Num: 9

Candidate Starts for McWolfish_223:

(Start: 9 @126323 has 168 MA's), (17, 126494), (20, 126527), (27, 126632), (35, 126749),

Gene: Megamind_223 Start: 126648, Stop: 127091, Start Num: 9

Candidate Starts for Megamind_223:

(Start: 9 @126648 has 168 MA's), (17, 126819), (20, 126852), (27, 126957), (35, 127074),

Gene: Melpomini_221 Start: 125408, Stop: 125851, Start Num: 9

Candidate Starts for Melpomini_221:

(Start: 9 @125408 has 168 MA's), (17, 125579), (20, 125612), (27, 125717), (35, 125834),

Gene: MikeLiesIn_228 Start: 127784, Stop: 128227, Start Num: 9

Candidate Starts for MikeLiesIn_228:

(Start: 9 @127784 has 168 MA's), (17, 127955), (20, 127988), (27, 128093), (35, 128210),

Gene: Mikro_222 Start: 128296, Stop: 128739, Start Num: 9

Candidate Starts for Mikro_222:

(Start: 9 @128296 has 168 MA's), (17, 128467), (20, 128500), (27, 128605), (35, 128722),

Gene: MoMoMixon_224 Start: 126789, Stop: 127232, Start Num: 9

Candidate Starts for MoMoMixon_224:

(Start: 9 @126789 has 168 MA's), (17, 126960), (20, 126993), (27, 127098), (35, 127215),

Gene: Momo_227 Start: 125874, Stop: 126317, Start Num: 9

Candidate Starts for Momo_227:

(Start: 9 @125874 has 168 MA's), (17, 126045), (20, 126078), (27, 126183), (35, 126300),

Gene: Morizzled23_223 Start: 125241, Stop: 125684, Start Num: 9

Candidate Starts for Morizzled23_223:

(Start: 9 @125241 has 168 MA's), (17, 125412), (20, 125445), (27, 125550), (35, 125667),

Gene: Myrna_217 Start: 125242, Stop: 125721, Start Num: 10

Candidate Starts for Myrna_217:

(2, 125074), (5, 125158), (Start: 10 @125242 has 1 MA's), (20, 125434), (21, 125440), (22, 125473),
(23, 125476), (25, 125500), (26, 125515), (28, 125566), (32, 125677), (34, 125695),

Gene: Naija_227 Start: 126577, Stop: 127020, Start Num: 9

Candidate Starts for Naija_227:

(Start: 9 @126577 has 168 MA's), (17, 126748), (20, 126781), (27, 126886), (35, 127003),

Gene: Napoleon13_223 Start: 125605, Stop: 126048, Start Num: 9

Candidate Starts for Napoleon13_223:

(Start: 9 @125605 has 168 MA's), (17, 125776), (20, 125809), (27, 125914), (35, 126031),

Gene: Nappy_228 Start: 128079, Stop: 128522, Start Num: 9

Candidate Starts for Nappy_228:

(Start: 9 @128079 has 168 MA's), (17, 128250), (20, 128283), (27, 128388), (35, 128505),

Gene: Naval22_231 Start: 128354, Stop: 128797, Start Num: 9

Candidate Starts for Naval22_231:

(Start: 9 @128354 has 168 MA's), (17, 128525), (20, 128558), (27, 128663), (35, 128780),

Gene: NedWong_225 Start: 127035, Stop: 127478, Start Num: 9

Candidate Starts for NedWong_225:

(Start: 9 @127035 has 168 MA's), (17, 127206), (20, 127239), (27, 127344), (35, 127461),

Gene: Ngannou_223 Start: 125559, Stop: 126002, Start Num: 9

Candidate Starts for Ngannou_223:

(Start: 9 @125559 has 168 MA's), (17, 125730), (20, 125763), (27, 125868), (35, 125985),

Gene: Nidhogg_227 Start: 127403, Stop: 127846, Start Num: 9

Candidate Starts for Nidhogg_227:

(Start: 9 @127403 has 168 MA's), (17, 127574), (20, 127607), (27, 127712), (35, 127829),

Gene: NoodleTree_232 Start: 127298, Stop: 127741, Start Num: 9

Candidate Starts for NoodleTree_232:

(Start: 9 @127298 has 168 MA's), (17, 127469), (20, 127502), (27, 127607), (35, 127724),

Gene: Norm_226 Start: 127304, Stop: 127747, Start Num: 9

Candidate Starts for Norm_226:

(Start: 9 @127304 has 168 MA's), (17, 127475), (20, 127508), (27, 127613), (35, 127730),

Gene: NuevoMundo_229 Start: 127859, Stop: 128302, Start Num: 9

Candidate Starts for NuevoMundo_229:

(Start: 9 @127859 has 168 MA's), (17, 128030), (20, 128063), (27, 128168), (35, 128285),

Gene: ParkTD_225 Start: 126874, Stop: 127317, Start Num: 9

Candidate Starts for ParkTD_225:

(Start: 9 @126874 has 168 MA's), (17, 127045), (20, 127078), (27, 127183), (35, 127300),

Gene: Patter_228 Start: 126591, Stop: 127034, Start Num: 9

Candidate Starts for Patter_228:

(Start: 9 @126591 has 168 MA's), (17, 126762), (20, 126795), (27, 126900), (35, 127017),

Gene: Phabba_227 Start: 124811, Stop: 125284, Start Num: 11

Candidate Starts for Phabba_227:

(1, 124631), (2, 124640), (3, 124667), (Start: 11 @124811 has 1 MA's), (20, 125003), (23, 125045), (25, 125069), (26, 125084), (27, 125117), (32, 125240), (34, 125258),

Gene: Phlegm_230 Start: 127280, Stop: 127723, Start Num: 9

Candidate Starts for Phlegm_230:

(Start: 9 @127280 has 168 MA's), (17, 127451), (20, 127484), (27, 127589), (35, 127706),

Gene: Phox_227 Start: 126527, Stop: 126970, Start Num: 9

Candidate Starts for Phox_227:

(Start: 9 @126527 has 168 MA's), (17, 126698), (20, 126731), (27, 126836), (35, 126953),

Gene: Phusco_225 Start: 126112, Stop: 126555, Start Num: 9

Candidate Starts for Phusco_225:

(Start: 9 @126112 has 168 MA's), (17, 126283), (20, 126316), (27, 126421), (35, 126538),

Gene: Pier_227 Start: 127405, Stop: 127848, Start Num: 9

Candidate Starts for Pier_227:

(Start: 9 @127405 has 168 MA's), (17, 127576), (20, 127609), (27, 127714), (35, 127831),

Gene: Pinkcreek_210 Start: 124817, Stop: 125260, Start Num: 9

Candidate Starts for Pinkcreek_210:

(Start: 9 @124817 has 168 MA's), (17, 124988), (20, 125021), (27, 125126), (29, 125150), (35, 125243),

Gene: Pio_234 Start: 128608, Stop: 129051, Start Num: 9

Candidate Starts for Pio_234:

(Start: 9 @128608 has 168 MA's), (17, 128779), (20, 128812), (27, 128917), (35, 129034),

Gene: Pivoine_227 Start: 126577, Stop: 127020, Start Num: 9

Candidate Starts for Pivoine_227:

(Start: 9 @126577 has 168 MA's), (17, 126748), (20, 126781), (27, 126886), (35, 127003),

Gene: Pleione_230 Start: 127340, Stop: 127783, Start Num: 9

Candidate Starts for Pleione_230:

(Start: 9 @127340 has 168 MA's), (17, 127511), (20, 127544), (27, 127649), (35, 127766),

Gene: Pupper_165 Start: 117644, Stop: 118015, Start Num: 14

Candidate Starts for Pupper_165:

(Start: 14 @117644 has 3 MA's), (15, 117680), (24, 117794), (26, 117818),

Gene: PurduePete_226 Start: 127605, Stop: 128048, Start Num: 9

Candidate Starts for PurduePete_226:

(Start: 9 @127605 has 168 MA's), (17, 127776), (20, 127809), (27, 127914), (35, 128031),

Gene: QBert_218 Start: 124928, Stop: 125371, Start Num: 9

Candidate Starts for QBert_218:

(Start: 9 @124928 has 168 MA's), (17, 125099), (20, 125132), (27, 125237), (35, 125354),

Gene: Quasimodo_229 Start: 126913, Stop: 127356, Start Num: 9

Candidate Starts for Quasimodo_229:

(Start: 9 @126913 has 168 MA's), (17, 127084), (20, 127117), (27, 127222), (35, 127339),

Gene: Rabinovish_219 Start: 126513, Stop: 126956, Start Num: 9

Candidate Starts for Rabinovish_219:

(Start: 9 @126513 has 168 MA's), (17, 126684), (20, 126717), (27, 126822), (29, 126846), (35, 126939),

Gene: Rahel_228 Start: 127015, Stop: 127458, Start Num: 9

Candidate Starts for Rahel_228:

(Start: 9 @127015 has 168 MA's), (17, 127186), (20, 127219), (27, 127324), (35, 127441),

Gene: Rizal_218 Start: 124830, Stop: 125273, Start Num: 9

Candidate Starts for Rizal_218:

(Start: 9 @124830 has 168 MA's), (17, 125001), (20, 125034), (27, 125139), (35, 125256),

Gene: RoMag_221 Start: 126611, Stop: 127054, Start Num: 9

Candidate Starts for RoMag_221:

(Start: 9 @126611 has 168 MA's), (17, 126782), (20, 126815), (27, 126920), (35, 127037),

Gene: Ronan_222 Start: 125000, Stop: 125443, Start Num: 9

Candidate Starts for Ronan_222:

(Start: 9 @125000 has 168 MA's), (17, 125171), (20, 125204), (27, 125309), (35, 125426),

Gene: Roots515_228 Start: 128156, Stop: 128599, Start Num: 9

Candidate Starts for Roots515_228:

(Start: 9 @128156 has 168 MA's), (17, 128327), (20, 128360), (27, 128465), (35, 128582),

Gene: SCentae_164 Start: 117798, Stop: 118169, Start Num: 14

Candidate Starts for SCentae_164:

(Start: 14 @117798 has 3 MA's), (15, 117834), (24, 117948), (26, 117972),

Gene: Salacia_228 Start: 128030, Stop: 128473, Start Num: 9

Candidate Starts for Salacia_228:

(Start: 9 @128030 has 168 MA's), (17, 128201), (20, 128234), (27, 128339), (35, 128456),

Gene: Sauce_223 Start: 126339, Stop: 126782, Start Num: 9

Candidate Starts for Sauce_223:

(Start: 9 @126339 has 168 MA's), (17, 126510), (20, 126543), (27, 126648), (35, 126765),

Gene: ScoobyDoobyDoo_215 Start: 122821, Stop: 123270, Start Num: 9

Candidate Starts for ScoobyDoobyDoo_215:

(4, 122752), (6, 122755), (7, 122761), (8, 122770), (Start: 9 @122821 has 168 MA's), (13, 122890), (17, 122974), (18, 122977), (20, 123007), (21, 123013), (23, 123049), (26, 123088), (30, 123193), (31, 123220), (32, 123226), (34, 123244), (35, 123247),

Gene: ScottMcG_220 Start: 125608, Stop: 126051, Start Num: 9

Candidate Starts for ScottMcG_220:

(Start: 9 @125608 has 168 MA's), (17, 125779), (20, 125812), (27, 125917), (35, 126034),

Gene: Sebata_229 Start: 127843, Stop: 128286, Start Num: 9

Candidate Starts for Sebata_229:

(Start: 9 @127843 has 168 MA's), (17, 128014), (20, 128047), (27, 128152), (35, 128269),

Gene: Shaqnato_217 Start: 125737, Stop: 126180, Start Num: 9

Candidate Starts for Shaqnato_217:

(Start: 9 @125737 has 168 MA's), (17, 125908), (20, 125941), (27, 126046), (35, 126163),

Gene: Shelob_227 Start: 128474, Stop: 128917, Start Num: 9

Candidate Starts for Shelob_227:

(Start: 9 @128474 has 168 MA's), (17, 128645), (20, 128678), (27, 128783), (35, 128900),

Gene: ShiaLabeouf_224 Start: 126333, Stop: 126776, Start Num: 9

Candidate Starts for ShiaLabeouf_224:

(Start: 9 @126333 has 168 MA's), (17, 126504), (20, 126537), (27, 126642), (35, 126759),

Gene: Shifa_204 Start: 125799, Stop: 126242, Start Num: 9
Candidate Starts for Shifa_204:
(Start: 9 @125799 has 168 MA's), (17, 125970), (20, 126003), (27, 126108), (35, 126225),

Gene: Shnickers_225 Start: 126397, Stop: 126840, Start Num: 9
Candidate Starts for Shnickers_225:
(Start: 9 @126397 has 168 MA's), (17, 126568), (20, 126601), (27, 126706), (35, 126823),

Gene: Shrimp_228 Start: 127641, Stop: 128084, Start Num: 9
Candidate Starts for Shrimp_228:
(Start: 9 @127641 has 168 MA's), (17, 127812), (20, 127845), (27, 127950), (35, 128067),

Gene: SilverDipper_230 Start: 127133, Stop: 127576, Start Num: 9
Candidate Starts for SilverDipper_230:
(Start: 9 @127133 has 168 MA's), (17, 127304), (20, 127337), (27, 127442), (35, 127559),

Gene: Skog_225 Start: 147266, Stop: 147646, Start Num: 14
Candidate Starts for Skog_225:
(Start: 14 @147266 has 3 MA's), (15, 147305), (16, 147320), (19, 147353), (23, 147401), (25, 147425), (33, 147620), (35, 147626),

Gene: SmallFry_227 Start: 126491, Stop: 126934, Start Num: 9
Candidate Starts for SmallFry_227:
(Start: 9 @126491 has 168 MA's), (17, 126662), (20, 126695), (27, 126800), (35, 126917),

Gene: Spec_221 Start: 126560, Stop: 127003, Start Num: 9
Candidate Starts for Spec_221:
(Start: 9 @126560 has 168 MA's), (17, 126731), (20, 126764), (27, 126869), (35, 126986),

Gene: Specks_230 Start: 126982, Stop: 127425, Start Num: 9
Candidate Starts for Specks_230:
(Start: 9 @126982 has 168 MA's), (17, 127153), (20, 127186), (27, 127291), (35, 127408),

Gene: Sprinklers_224 Start: 126227, Stop: 126670, Start Num: 9
Candidate Starts for Sprinklers_224:
(Start: 9 @126227 has 168 MA's), (17, 126398), (20, 126431), (27, 126536), (35, 126653),

Gene: Spud_220 Start: 125948, Stop: 126391, Start Num: 9
Candidate Starts for Spud_220:
(Start: 9 @125948 has 168 MA's), (17, 126119), (20, 126152), (27, 126257), (35, 126374),

Gene: SrishMeg2525_223 Start: 127137, Stop: 127580, Start Num: 9
Candidate Starts for SrishMeg2525_223:
(Start: 9 @127137 has 168 MA's), (17, 127308), (20, 127341), (27, 127446), (35, 127563),

Gene: StephanieG_222 Start: 127134, Stop: 127577, Start Num: 9
Candidate Starts for StephanieG_222:
(Start: 9 @127134 has 168 MA's), (17, 127305), (20, 127338), (27, 127443), (35, 127560),

Gene: Stubby_210 Start: 125025, Stop: 125468, Start Num: 9
Candidate Starts for Stubby_210:
(Start: 9 @125025 has 168 MA's), (17, 125196), (20, 125229), (27, 125334), (35, 125451),

Gene: StubbySaigey_231 Start: 126667, Stop: 127110, Start Num: 9
Candidate Starts for StubbySaigey_231:
(Start: 9 @126667 has 168 MA's), (17, 126838), (20, 126871), (27, 126976), (35, 127093),

Gene: Teardrop_224 Start: 125993, Stop: 126436, Start Num: 9
Candidate Starts for Teardrop_224:
(Start: 9 @125993 has 168 MA's), (17, 126164), (20, 126197), (27, 126302), (35, 126419),

Gene: TinyTim_224 Start: 125961, Stop: 126404, Start Num: 9
Candidate Starts for TinyTim_224:
(Start: 9 @125961 has 168 MA's), (17, 126132), (20, 126165), (27, 126270), (35, 126387),

Gene: Tonenili_248 Start: 131783, Stop: 132226, Start Num: 9
Candidate Starts for Tonenili_248:
(Start: 9 @131783 has 168 MA's), (17, 131954), (20, 131987), (27, 132092), (32, 132188), (35, 132209),

Gene: Tortoise16_224 Start: 126423, Stop: 126866, Start Num: 9
Candidate Starts for Tortoise16_224:
(Start: 9 @126423 has 168 MA's), (17, 126594), (20, 126627), (27, 126732), (35, 126849),

Gene: Trinitium_222 Start: 124715, Stop: 125158, Start Num: 9
Candidate Starts for Trinitium_222:
(Start: 9 @124715 has 168 MA's), (17, 124886), (20, 124919), (27, 125024), (35, 125141),

Gene: Turret_219 Start: 124297, Stop: 124740, Start Num: 9
Candidate Starts for Turret_219:
(Start: 9 @124297 has 168 MA's), (17, 124468), (20, 124501), (27, 124606), (35, 124723),

Gene: Tyke_225 Start: 128603, Stop: 129046, Start Num: 9
Candidate Starts for Tyke_225:
(Start: 9 @128603 has 168 MA's), (17, 128774), (20, 128807), (27, 128912), (35, 129029),

Gene: ValleyTerrace_227 Start: 125874, Stop: 126317, Start Num: 9
Candidate Starts for ValleyTerrace_227:
(Start: 9 @125874 has 168 MA's), (17, 126045), (20, 126078), (27, 126183), (35, 126300),

Gene: Wally_224 Start: 125858, Stop: 126301, Start Num: 9
Candidate Starts for Wally_224:
(Start: 9 @125858 has 168 MA's), (17, 126029), (20, 126062), (27, 126167), (35, 126284),

Gene: Willis_227 Start: 126797, Stop: 127240, Start Num: 9
Candidate Starts for Willis_227:
(Start: 9 @126797 has 168 MA's), (17, 126968), (20, 127001), (27, 127106), (35, 127223),

Gene: Yassified_223 Start: 126210, Stop: 126653, Start Num: 9
Candidate Starts for Yassified_223:
(Start: 9 @126210 has 168 MA's), (17, 126381), (20, 126414), (27, 126519), (35, 126636),

Gene: YemiJoy2021_227 Start: 127528, Stop: 127971, Start Num: 9
Candidate Starts for YemiJoy2021_227:
(Start: 9 @127528 has 168 MA's), (17, 127699), (20, 127732), (27, 127837), (35, 127954),

Gene: YoungMoneyMata_226 Start: 127045, Stop: 127488, Start Num: 9
Candidate Starts for YoungMoneyMata_226:
(Start: 9 @127045 has 168 MA's), (17, 127216), (20, 127249), (27, 127354), (35, 127471),

Gene: Yucca_226 Start: 127520, Stop: 127963, Start Num: 9
Candidate Starts for Yucca_226:
(Start: 9 @127520 has 168 MA's), (17, 127691), (20, 127724), (27, 127829), (35, 127946),

Gene: Zalkecks_225 Start: 126626, Stop: 127069, Start Num: 9
Candidate Starts for Zalkecks_225:
(Start: 9 @126626 has 168 MA's), (17, 126797), (20, 126830), (27, 126935), (35, 127052),

Gene: Zeenon_228 Start: 127160, Stop: 127603, Start Num: 9
Candidate Starts for Zeenon_228:
(Start: 9 @127160 has 168 MA's), (17, 127331), (20, 127364), (27, 127469), (35, 127586),

Gene: ZygoTaiga_223 Start: 127817, Stop: 128260, Start Num: 9
Candidate Starts for ZygoTaiga_223:
(Start: 9 @127817 has 168 MA's), (17, 127988), (20, 128021), (27, 128126), (35, 128243),