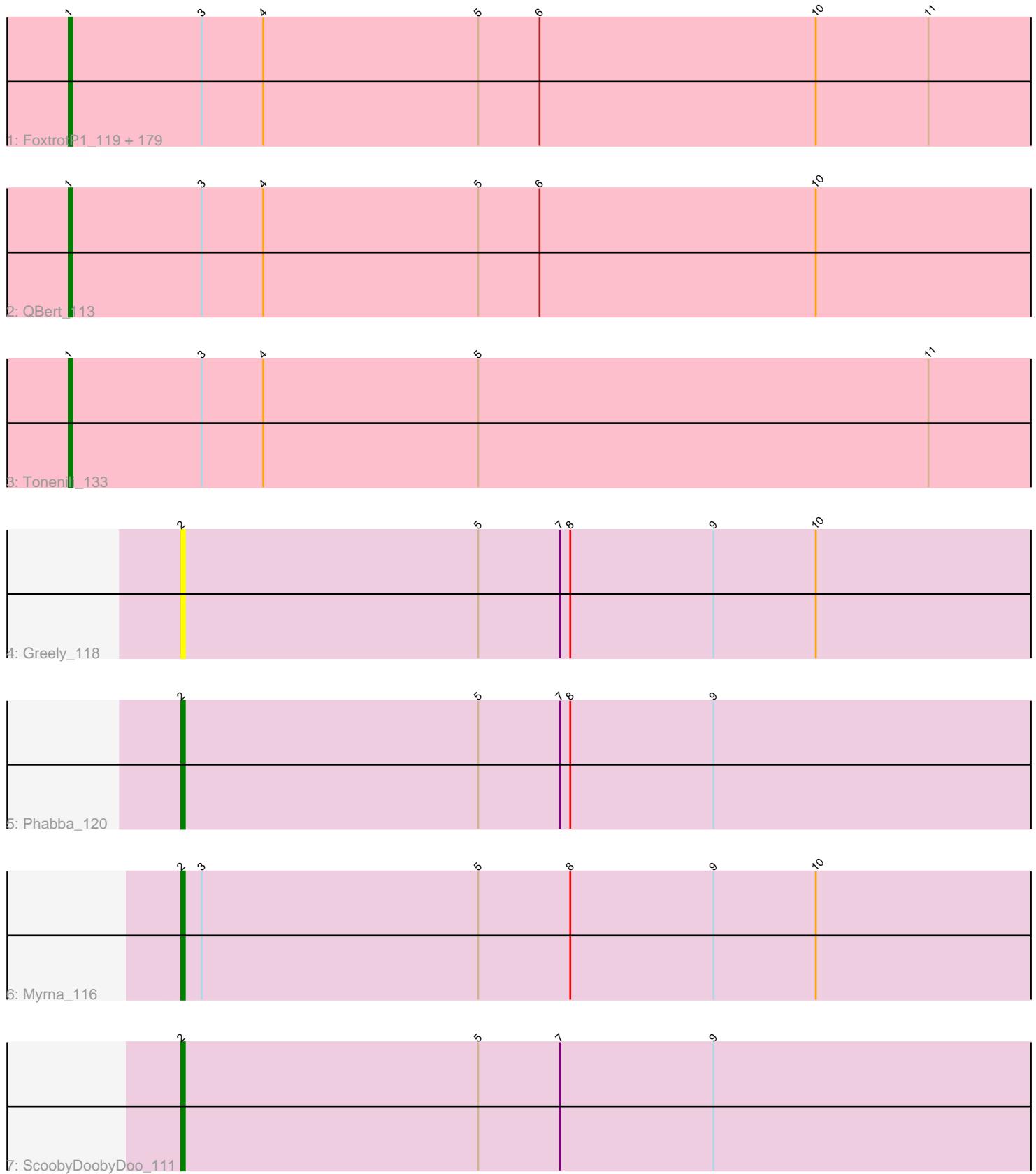


Pham 480



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 480 Report

This analysis was run 04/05/24 on database version 557.

Pham number 480 has 186 members, 16 are drafts.

Phages represented in each track:

- Track 1 : FoxtrotP1_119, NedWong_120, Spud_118, I3_124, Caravan_113, Pivoine_118, Darko_119, DTDevon_119, LordLeafolot_122, JPickles_116, CharlieB_115, Dietrick_111, Erdmann_119, Koguma_116, Audrick_121, LinStu_117, SilverDipper_120, LRRHood_112, Jessibeth14_118, FrayBell_124, ChaylaJr_114, Rizal_114, Sebata_119, Jedediah_122, Ghost_117, JayJay_119, ValleyTerrace_119, EggyFarm_126, Quasimodo_120, Roots515_117, Naija_118, Melpomini_113, Shaqnato_112, Ronan_113, YemiJoy2021_120, ErnieJ_113, Drazdys_117, Matsumoto_115, Ewok_120, Kboogie_123, Wally_118, ET08_107, ShiaLabeouf_118, Mikro_116, CindyLou_120, Issimir_117, Colt_110, Delilah_119, Rahel_118, Mangeria_119, Bigswole_122, ArcherS7_118, Grungle_106, Asterius_115, Charge21_115, RoMag_114, EasyJones_121, Amataga_119, Maby2021_119, Dandelion_124, Alice_111, Loanshark_118, Breenieme_118, ScottMcG_115, Gizmo_123, Shelob_121, Burrough_119, Cactojaque_114, Yassified_116, Basquiat_115, Derek_118, Atlantean_118, Jemmmo_119, MikeLiesIn_120, Astraea_115, Megamind_118, Cane17_109, Spec_114, Capablanca_121, Pier_123, DrPhinkDaddy_118, SmallFry_119, Shnickers_119, LolaVinca_119, Jaygup_119, Pinkcreek_110, Latch_119, SrishMeg2525_118, Delylah_122, Lukilu_109, Essence_116, Ngannou_115, Shrimp_119, Blubba_110, BackyardAgain_116, Ading_119, Janiyra_121, Norm_120, Cali_114, Nappy_121, Flabslab_113, Kamryn_119, Phlegm_121, Turret_114, ParkTD_120, Zygotaiga_117, MoMoMixon_119, BigCity_126, DirtMonster_113, ChickenPhender_115, Catera_115, Grasshills_125, Tortoise16_116, IkeLoa_112, NuevoMundo_124, McWolfish_117, Zalkecks_120, StephanieG_117, BananaFence_118, Zeenon_120, FudgeTart_117, Guwapp_118, Shifa_107, JulietS_113, Sauce_119, EmToTheThree_121, Gabriel_119, Sprinklers_115, YoungMoneyMata_120, Izajani_119, InterFolia_125, McGee_121, Salacia_123, Rabinovish_116, Trinitium_116, Adlitam_119, StubbySaigey_122, BeanWater_111, Ava3_120, Willis_120, Stubby_111, InigoMontoya_120, Naval22_123, Morizzled23_119, Momo_118, JustHall_116, EmmaElysia_119, NoodleTree_126, Pleione_122, Pio_123, Concombre_124, Fludd_119, Bonray_119, Napoleon13_115, Phox_116, Bread_118, TinyTim_119, BadAgartude_115, Lee7_116, Patter_119, Bipolarisk_118, Tyke_119, Littleton_119, Gamgam_119, Yucca_118, Iota_114, PurduePete_119, LifeSavor_117, Bxz1_116, Blackbrain_114, Bangla1971_120, Daffodil_124, Phusco_119, Khaleesi_118, HyRo_109, Teardrop_118, Babyland_120, Nidhogg_120, Specks_124, Chomp_116
- Track 2 : QBert_113
- Track 3 : Tonenili_133
- Track 4 : Greely_118

- Track 5 : Phabba_120
- Track 6 : Myrna_116
- Track 7 : ScoobyDoobyDoo_111

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

The start number called the most often in the published annotations is 1, it was called in 167 of the 170 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_119, Adlitam_119, Alice_111, Amataga_119, ArcherS7_118, Asterius_115, Astraea_115, Atlantean_118, Audrick_121, Ava3_120, Babyland_120, BackyardAgain_116, BadAgartude_115, BananaFence_118, Bangla1971_120, Basquiat_115, BeanWater_111, BigCity_126, Bigswole_122, Bipolarisk_118, Blackbrain_114, Blubba_110, Bonray_119, Bread_118, Breeniome_118, Burrough_119, Bxz1_116, Cactojaque_114, Cali_114, Cane17_109, Capablanca_121, Caravan_113, Catera_115, Charge21_115, CharlieB_115, ChaylaJr_114, ChickenPhender_115, Chomp_116, CindyLou_120, Colt_110, Concombe_124, DTDevon_119, Daffodil_124, Dandelion_124, Darko_119, Delilah_119, Delylah_122, Derek_118, Dietrick_111, DirtMonster_113, DrPhinkDaddy_118, Drazdys_117, ET08_107, EasyJones_121, EggyFarm_126, EmToTheThree_121, EmmaElysia_119, Erdmann_119, ErnieJ_113, Essence_116, Ewok_120, Flabslab_113, Fludd_119, FoxtrotP1_119, FrayBell_124, FudgeTart_117, Gabriel_119, Gamgam_119, Ghost_117, Gizmo_123, Grasshills_125, Grungle_106, Guwapp_118, HyRo_109, I3_124, IkeLoa_112, InigoMontoya_120, InterFolia_125, Iota_114, Issimir_117, Izajani_119, JPickles_116, Janiyra_121, JayJay_119, Jaygup_119, Jedediah_122, Jemmnno_119, Jessibeth14_118, JulietS_113, JustHall_116, Kamryn_119, Kboogie_123, Khaleesi_118, Koguma_116, LRRHood_112, Latch_119, Lee7_116, LifeSavor_117, LinStu_117, Littleton_119, Loanshark_118, LolaVinca_119, LordLeafolot_122, Lukilu_109, Maby2021_119, Mangeria_119, Matsumoto_115, McGee_121, McWolfish_117, Megamind_118, Melpomini_113, MikeLiesIn_120, Mikro_116, MoMoMixon_119, Momo_118, Morizzled23_119, Naija_118, Napoleon13_115, Nappy_121, Naval22_123, NedWong_120, Ngannou_115, Nidhogg_120, NoodleTree_126, Norm_120, NuevoMundo_124, ParkTD_120, Patter_119, Phlegm_121, Phox_116, Phusco_119, Pier_123, Pinkcreek_110, Pio_123, Pivoine_118, Pleione_122, PurduePete_119, QBert_113, Quasimodo_120, Rabinovich_116, Rahel_118, Rizal_114, RoMag_114, Ronan_113, Roots515_117, Salacia_123, Sauce_119, ScottMcG_115, Sebata_119, Shaqnato_112, Shelob_121, ShiaLabeouf_118, Shifa_107, Shnickers_119, Shrimp_119, SilverDipper_120, SmallFry_119, Spec_114, Specks_124, Sprinklers_115, Spud_118, SrishMeg2525_118, StephanieG_117, StubbySaigey_122, Stubby_111, Teardrop_118, TinyTim_119, Tonenili_133, Tortoise16_116, Trinitium_116, Turret_114, Tyke_119, ValleyTerrace_119, Wally_118, Willis_120, Yassified_116, YemiJoy2021_120, YoungMoneyMata_120, Yucca_118, Zalkecks_120, Zeenon_120, ZygoTaiga_117,

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

-

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

- Greely_118, Myrna_116, Phabba_120, ScoobyDoobyDoo_111,

Summary by start number:

Start 1:

- Found in 182 of 186 (97.8%) of genes in pham
- Manual Annotations of this start: 167 of 170
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ading_119 (C1), Adlitam_119 (C1), Alice_111 (C1), Amataga_119 (C1), ArcherS7_118 (C1), Asterius_115 (C1), Astraea_115 (C1), Atlantean_118 (C1), Audrick_121 (C1), Ava3_120 (C1), Babyland_120 (C1), BackyardAgain_116 (C1), BadAgartude_115 (C1), BananaFence_118 (C1), Bangla1971_120 (C1), Basquiat_115 (C1), BeanWater_111 (C1), BigCity_126 (C1), Bigswole_122 (C1), Bipolarisk_118 (C1), Blackbrain_114 (C1), Blubba_110 (C1), Bonray_119 (C1), Bread_118 (C1), Breenieme_118 (C1), Burrough_119 (C1), Bxz1_116 (C1), Cactojaque_114 (C1), Cali_114 (C1), Cane17_109 (C1), Capablanca_121 (C1), Caravan_113 (C1), Catera_115 (C1), Chargie21_115 (C1), CharlieB_115 (C1), ChaylaJr_114 (C1), ChickenPhender_115 (C1), Chomp_116 (C1), CindyLou_120 (C1), Colt_110 (C1), Concombre_124 (C1), DTDevon_119 (C1), Daffodil_124 (C1), Dandelion_124 (C1), Darko_119 (C1), Delilah_119 (C1), Delylah_122 (C1), Derek_118 (C1), Dietrick_111 (C1), DirtMonster_113 (C1), DrPhinkDaddy_118 (C1), Drazdys_117 (C1), ET08_107 (C1), EasyJones_121 (C1), EggyFarm_126 (C1), EmToTheThree_121 (C1), EmmaElysia_119 (C1), Erdmann_119 (C1), ErnieJ_113 (C1), Essence_116 (C1), Ewok_120 (C1), Flabslab_113 (C1), Fludd_119 (C1), FoxtrotP1_119 (C1), FrayBell_124 (C1), FudgeTart_117 (C1), Gabriel_119 (C1), Gamgam_119 (C1), Ghost_117 (C1), Gizmo_123 (C1), Grasshills_125 (C1), Grungle_106 (C1), Guwapp_118 (C1), HyRo_109 (C1), I3_124 (C1), IkeLoa_112 (C1), InigoMontoya_120 (C1), InterFolia_125 (C1), Iota_114 (C1), Issimir_117 (C1), Izajani_119 (C1), JPickles_116 (C1), Janiyra_121 (C1), JayJay_119 (C1), Jaygup_119 (C1), Jedediah_122 (C1), Jemmno_119 (C1), Jessibeth14_118 (C1), JulietS_113 (C1), JustHall_116 (C1), Kamryn_119 (C1), Kboogie_123 (C1), Khaleesi_118 (C1), Koguma_116 (C1), LRRHood_112 (C1), Latch_119 (C1), Lee7_116 (C1), LifeSavor_117 (C1), LinStu_117 (C1), Littleton_119 (C1), Loanshark_118 (C1), LolaVinca_119 (C1), LordLeafolot_122 (C1), Lukilu_109 (C1), Maby2021_119 (C1), Mangeria_119 (C1), Matsumoto_115 (C1), McGee_121 (C1), McWolfish_117 (C1), Megamind_118 (C1), Melpomini_113 (C1), MikeLiesln_120 (C1), Mikro_116 (C1), MoMoMixon_119 (C1), Momo_118 (C1), Morizzled23_119 (C1), Naija_118 (C1), Napoleon13_115 (C1), Nappy_121 (C1), Naval22_123 (C1), NedWong_120 (C1), Ngannou_115 (C1), Nidhogg_120 (C1), NoodleTree_126 (C1), Norm_120 (C1), NuevoMundo_124 (C1), ParkTD_120 (C1), Patter_119 (C1), Phlegm_121 (C1), Phox_116 (C1), Phusco_119 (C1), Pier_123 (C1), Pinkcreek_110 (C1), Pio_123 (C1), Pivoine_118 (C1), Pleione_122 (C1), PurduePete_119 (C1), QBert_113 (C1), Quasimodo_120 (C1), Rabinovish_116 (C1), Rahel_118 (C1), Rizal_114 (C1), RoMag_114 (C1), Ronan_113 (C1), Roots515_117 (C1), Salacia_123 (C1), Sauce_119 (C1), ScottMcG_115 (C1), Sebata_119 (C1), Shaqnato_112 (C1), Shelob_121 (C1), ShiaLabeouf_118 (C1), Shifa_107 (C1), Shnickers_119 (C1), Shrimp_119 (C1), SilverDipper_120 (C1), SmallFry_119 (C1), Spec_114 (C1), Specks_124 (C1), Sprinklers_115 (C1), Spud_118 (C1), SrishMeg2525_118 (C1), StephanieG_117 (C1), StubbySaigey_122 (C1), Stubby_111 (C1), Teardrop_118 (C1), TinyTim_119 (C1), Tonenili_133 (C1), Tortoise16_116 (C1), Trinitium_116 (C1), Turret_114 (C1), Tyke_119 (C1), ValleyTerrace_119 (C1), Wally_118 (C1), Willis_120 (C1), Yassified_116 (C1),

YemiJoy2021_120 (C1), YoungMoneyMata_120 (C1), Yucca_118 (C1), Zalkecks_120 (C1), Zeenon_120 (C1), ZygoTaiga_117 (C1),

Start 2:

- Found in 4 of 186 (2.2%) of genes in pham
- Manual Annotations of this start: 3 of 170
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_118 (C2), Myrna_116 (C2), Phabba_120 (C2), ScoobyDoobyDoo_111 (C2),

Summary by clusters:

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

Info for manual annotations of cluster C1:

- Start number 1 was manually annotated 167 times for cluster C1.

Info for manual annotations of cluster C2:

- Start number 2 was manually annotated 3 times for cluster C2.

Gene Information:

Gene: Ading_119 Start: 61452, Stop: 61742, Start Num: 1

Candidate Starts for Ading_119:

(Start: 1 @61452 has 167 MA's), (3, 61491), (4, 61509), (5, 61572), (6, 61590), (10, 61671), (11, 61704),

Gene: Adlitam_119 Start: 61469, Stop: 61759, Start Num: 1

Candidate Starts for Adlitam_119:

(Start: 1 @61469 has 167 MA's), (3, 61508), (4, 61526), (5, 61589), (6, 61607), (10, 61688), (11, 61721),

Gene: Alice_111 Start: 60757, Stop: 61047, Start Num: 1

Candidate Starts for Alice_111:

(Start: 1 @60757 has 167 MA's), (3, 60796), (4, 60814), (5, 60877), (6, 60895), (10, 60976), (11, 61009),

Gene: Amataga_119 Start: 60714, Stop: 61004, Start Num: 1

Candidate Starts for Amataga_119:

(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: ArcherS7_118 Start: 61032, Stop: 61322, Start Num: 1

Candidate Starts for ArcherS7_118:

(Start: 1 @61032 has 167 MA's), (3, 61071), (4, 61089), (5, 61152), (6, 61170), (10, 61251), (11, 61284),

Gene: Asterius_115 Start: 61708, Stop: 61998, Start Num: 1

Candidate Starts for Asterius_115:

(Start: 1 @61708 has 167 MA's), (3, 61747), (4, 61765), (5, 61828), (6, 61846), (10, 61927), (11, 61960),

Gene: Astraea_115 Start: 60483, Stop: 60773, Start Num: 1
Candidate Starts for Astraea_115:
(Start: 1 @60483 has 167 MA's), (3, 60522), (4, 60540), (5, 60603), (6, 60621), (10, 60702), (11, 60735),

Gene: Atlantean_118 Start: 60714, Stop: 61004, Start Num: 1
Candidate Starts for Atlantean_118:
(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: Audrick_121 Start: 60693, Stop: 60983, Start Num: 1
Candidate Starts for Audrick_121:
(Start: 1 @60693 has 167 MA's), (3, 60732), (4, 60750), (5, 60813), (6, 60831), (10, 60912), (11, 60945),

Gene: Ava3_120 Start: 61627, Stop: 61917, Start Num: 1
Candidate Starts for Ava3_120:
(Start: 1 @61627 has 167 MA's), (3, 61666), (4, 61684), (5, 61747), (6, 61765), (10, 61846), (11, 61879),

Gene: Babyland_120 Start: 60802, Stop: 61092, Start Num: 1
Candidate Starts for Babyland_120:
(Start: 1 @60802 has 167 MA's), (3, 60841), (4, 60859), (5, 60922), (6, 60940), (10, 61021), (11, 61054),

Gene: BackyardAgain_116 Start: 60630, Stop: 60920, Start Num: 1
Candidate Starts for BackyardAgain_116:
(Start: 1 @60630 has 167 MA's), (3, 60669), (4, 60687), (5, 60750), (6, 60768), (10, 60849), (11, 60882),

Gene: BadAgartude_115 Start: 61919, Stop: 62209, Start Num: 1
Candidate Starts for BadAgartude_115:
(Start: 1 @61919 has 167 MA's), (3, 61958), (4, 61976), (5, 62039), (6, 62057), (10, 62138), (11, 62171),

Gene: BananaFence_118 Start: 61883, Stop: 62173, Start Num: 1
Candidate Starts for BananaFence_118:
(Start: 1 @61883 has 167 MA's), (3, 61922), (4, 61940), (5, 62003), (6, 62021), (10, 62102), (11, 62135),

Gene: Bangla1971_120 Start: 61162, Stop: 61452, Start Num: 1
Candidate Starts for Bangla1971_120:
(Start: 1 @61162 has 167 MA's), (3, 61201), (4, 61219), (5, 61282), (6, 61300), (10, 61381), (11, 61414),

Gene: Basquiat_115 Start: 60356, Stop: 60646, Start Num: 1
Candidate Starts for Basquiat_115:
(Start: 1 @60356 has 167 MA's), (3, 60395), (4, 60413), (5, 60476), (6, 60494), (10, 60575), (11, 60608),

Gene: BeanWater_111 Start: 61481, Stop: 61771, Start Num: 1
Candidate Starts for BeanWater_111:

(Start: 1 @61481 has 167 MA's), (3, 61520), (4, 61538), (5, 61601), (6, 61619), (10, 61700), (11, 61733),

Gene: BigCity_126 Start: 64143, Stop: 64433, Start Num: 1

Candidate Starts for BigCity_126:

(Start: 1 @64143 has 167 MA's), (3, 64182), (4, 64200), (5, 64263), (6, 64281), (10, 64362), (11, 64395),

Gene: Bigswole_122 Start: 63428, Stop: 63718, Start Num: 1

Candidate Starts for Bigswole_122:

(Start: 1 @63428 has 167 MA's), (3, 63467), (4, 63485), (5, 63548), (6, 63566), (10, 63647), (11, 63680),

Gene: Bipolarisk_118 Start: 61885, Stop: 62175, Start Num: 1

Candidate Starts for Bipolarisk_118:

(Start: 1 @61885 has 167 MA's), (3, 61924), (4, 61942), (5, 62005), (6, 62023), (10, 62104), (11, 62137),

Gene: Blackbrain_114 Start: 60177, Stop: 60467, Start Num: 1

Candidate Starts for Blackbrain_114:

(Start: 1 @60177 has 167 MA's), (3, 60216), (4, 60234), (5, 60297), (6, 60315), (10, 60396), (11, 60429),

Gene: Blubba_110 Start: 61919, Stop: 62209, Start Num: 1

Candidate Starts for Blubba_110:

(Start: 1 @61919 has 167 MA's), (3, 61958), (4, 61976), (5, 62039), (6, 62057), (10, 62138), (11, 62171),

Gene: Bonray_119 Start: 62058, Stop: 62348, Start Num: 1

Candidate Starts for Bonray_119:

(Start: 1 @62058 has 167 MA's), (3, 62097), (4, 62115), (5, 62178), (6, 62196), (10, 62277), (11, 62310),

Gene: Bread_118 Start: 61713, Stop: 62003, Start Num: 1

Candidate Starts for Bread_118:

(Start: 1 @61713 has 167 MA's), (3, 61752), (4, 61770), (5, 61833), (6, 61851), (10, 61932), (11, 61965),

Gene: Breeniome_118 Start: 60061, Stop: 60351, Start Num: 1

Candidate Starts for Breeniome_118:

(Start: 1 @60061 has 167 MA's), (3, 60100), (4, 60118), (5, 60181), (6, 60199), (10, 60280), (11, 60313),

Gene: Burrough_119 Start: 62212, Stop: 62502, Start Num: 1

Candidate Starts for Burrough_119:

(Start: 1 @62212 has 167 MA's), (3, 62251), (4, 62269), (5, 62332), (6, 62350), (10, 62431), (11, 62464),

Gene: Bxz1_116 Start: 63415, Stop: 63705, Start Num: 1

Candidate Starts for Bxz1_116:

(Start: 1 @63415 has 167 MA's), (3, 63454), (4, 63472), (5, 63535), (6, 63553), (10, 63634), (11, 63667),

Gene: Cactojaque_114 Start: 60284, Stop: 60574, Start Num: 1

Candidate Starts for Cactojaque_114:

(Start: 1 @60284 has 167 MA's), (3, 60323), (4, 60341), (5, 60404), (6, 60422), (10, 60503), (11, 60536),

Gene: Cali_114 Start: 62214, Stop: 62504, Start Num: 1

Candidate Starts for Cali_114:

(Start: 1 @62214 has 167 MA's), (3, 62253), (4, 62271), (5, 62334), (6, 62352), (10, 62433), (11, 62466),

Gene: Cane17_109 Start: 61977, Stop: 62267, Start Num: 1

Candidate Starts for Cane17_109:

(Start: 1 @61977 has 167 MA's), (3, 62016), (4, 62034), (5, 62097), (6, 62115), (10, 62196), (11, 62229),

Gene: Capablanca_121 Start: 62464, Stop: 62754, Start Num: 1

Candidate Starts for Capablanca_121:

(Start: 1 @62464 has 167 MA's), (3, 62503), (4, 62521), (5, 62584), (6, 62602), (10, 62683), (11, 62716),

Gene: Caravan_113 Start: 61571, Stop: 61861, Start Num: 1

Candidate Starts for Caravan_113:

(Start: 1 @61571 has 167 MA's), (3, 61610), (4, 61628), (5, 61691), (6, 61709), (10, 61790), (11, 61823),

Gene: Catera_115 Start: 60488, Stop: 60778, Start Num: 1

Candidate Starts for Catera_115:

(Start: 1 @60488 has 167 MA's), (3, 60527), (4, 60545), (5, 60608), (6, 60626), (10, 60707), (11, 60740),

Gene: Charge21_115 Start: 60356, Stop: 60646, Start Num: 1

Candidate Starts for Charge21_115:

(Start: 1 @60356 has 167 MA's), (3, 60395), (4, 60413), (5, 60476), (6, 60494), (10, 60575), (11, 60608),

Gene: CharlieB_115 Start: 60618, Stop: 60908, Start Num: 1

Candidate Starts for CharlieB_115:

(Start: 1 @60618 has 167 MA's), (3, 60657), (4, 60675), (5, 60738), (6, 60756), (10, 60837), (11, 60870),

Gene: ChaylaJr_114 Start: 60110, Stop: 60400, Start Num: 1

Candidate Starts for ChaylaJr_114:

(Start: 1 @60110 has 167 MA's), (3, 60149), (4, 60167), (5, 60230), (6, 60248), (10, 60329), (11, 60362),

Gene: ChickenPhender_115 Start: 60413, Stop: 60703, Start Num: 1

Candidate Starts for ChickenPhender_115:

(Start: 1 @60413 has 167 MA's), (3, 60452), (4, 60470), (5, 60533), (6, 60551), (10, 60632), (11, 60665),

Gene: Chomp_116 Start: 62003, Stop: 62293, Start Num: 1

Candidate Starts for Chomp_116:

(Start: 1 @62003 has 167 MA's), (3, 62042), (4, 62060), (5, 62123), (6, 62141), (10, 62222), (11, 62255),

Gene: CindyLou_120 Start: 62043, Stop: 62333, Start Num: 1

Candidate Starts for CindyLou_120:

(Start: 1 @62043 has 167 MA's), (3, 62082), (4, 62100), (5, 62163), (6, 62181), (10, 62262), (11, 62295),

Gene: Colt_110 Start: 62573, Stop: 62863, Start Num: 1

Candidate Starts for Colt_110:

(Start: 1 @62573 has 167 MA's), (3, 62612), (4, 62630), (5, 62693), (6, 62711), (10, 62792), (11, 62825),

Gene: Concombre_124 Start: 64376, Stop: 64666, Start Num: 1

Candidate Starts for Concombre_124:

(Start: 1 @64376 has 167 MA's), (3, 64415), (4, 64433), (5, 64496), (6, 64514), (10, 64595), (11, 64628),

Gene: DTDevon_119 Start: 62254, Stop: 62544, Start Num: 1

Candidate Starts for DTDevon_119:

(Start: 1 @62254 has 167 MA's), (3, 62293), (4, 62311), (5, 62374), (6, 62392), (10, 62473), (11, 62506),

Gene: Daffodil_124 Start: 62185, Stop: 62475, Start Num: 1

Candidate Starts for Daffodil_124:

(Start: 1 @62185 has 167 MA's), (3, 62224), (4, 62242), (5, 62305), (6, 62323), (10, 62404), (11, 62437),

Gene: Dandelion_124 Start: 64377, Stop: 64667, Start Num: 1

Candidate Starts for Dandelion_124:

(Start: 1 @64377 has 167 MA's), (3, 64416), (4, 64434), (5, 64497), (6, 64515), (10, 64596), (11, 64629),

Gene: Darko_119 Start: 61887, Stop: 62177, Start Num: 1

Candidate Starts for Darko_119:

(Start: 1 @61887 has 167 MA's), (3, 61926), (4, 61944), (5, 62007), (6, 62025), (10, 62106), (11, 62139),

Gene: Delilah_119 Start: 62339, Stop: 62629, Start Num: 1

Candidate Starts for Delilah_119:

(Start: 1 @62339 has 167 MA's), (3, 62378), (4, 62396), (5, 62459), (6, 62477), (10, 62558), (11, 62591),

Gene: Delylah_122 Start: 61878, Stop: 62168, Start Num: 1

Candidate Starts for Delylah_122:

(Start: 1 @61878 has 167 MA's), (3, 61917), (4, 61935), (5, 61998), (6, 62016), (10, 62097), (11, 62130),

Gene: Derek_118 Start: 61804, Stop: 62094, Start Num: 1

Candidate Starts for Derek_118:

(Start: 1 @61804 has 167 MA's), (3, 61843), (4, 61861), (5, 61924), (6, 61942), (10, 62023), (11, 62056),

Gene: Dietrick_111 Start: 59880, Stop: 60170, Start Num: 1

Candidate Starts for Dietrick_111:

(Start: 1 @59880 has 167 MA's), (3, 59919), (4, 59937), (5, 60000), (6, 60018), (10, 60099), (11, 60132),

Gene: DirtMonster_113 Start: 61138, Stop: 61428, Start Num: 1

Candidate Starts for DirtMonster_113:

(Start: 1 @61138 has 167 MA's), (3, 61177), (4, 61195), (5, 61258), (6, 61276), (10, 61357), (11, 61390),

Gene: DrPhinkDaddy_118 Start: 62407, Stop: 62697, Start Num: 1

Candidate Starts for DrPhinkDaddy_118:

(Start: 1 @62407 has 167 MA's), (3, 62446), (4, 62464), (5, 62527), (6, 62545), (10, 62626), (11, 62659),

Gene: Drazdys_117 Start: 60868, Stop: 61158, Start Num: 1

Candidate Starts for Drazdys_117:

(Start: 1 @60868 has 167 MA's), (3, 60907), (4, 60925), (5, 60988), (6, 61006), (10, 61087), (11, 61120),

Gene: ET08_107 Start: 60868, Stop: 61158, Start Num: 1

Candidate Starts for ET08_107:

(Start: 1 @60868 has 167 MA's), (3, 60907), (4, 60925), (5, 60988), (6, 61006), (10, 61087), (11, 61120),

Gene: EasyJones_121 Start: 61010, Stop: 61300, Start Num: 1

Candidate Starts for EasyJones_121:

(Start: 1 @61010 has 167 MA's), (3, 61049), (4, 61067), (5, 61130), (6, 61148), (10, 61229), (11, 61262),

Gene: EggFarm_126 Start: 64143, Stop: 64433, Start Num: 1

Candidate Starts for EggFarm_126:

(Start: 1 @64143 has 167 MA's), (3, 64182), (4, 64200), (5, 64263), (6, 64281), (10, 64362), (11, 64395),

Gene: EmToTheThree_121 Start: 63147, Stop: 63437, Start Num: 1

Candidate Starts for EmToTheThree_121:

(Start: 1 @63147 has 167 MA's), (3, 63186), (4, 63204), (5, 63267), (6, 63285), (10, 63366), (11, 63399),

Gene: EmmaElysia_119 Start: 60933, Stop: 61223, Start Num: 1

Candidate Starts for EmmaElysia_119:

(Start: 1 @60933 has 167 MA's), (3, 60972), (4, 60990), (5, 61053), (6, 61071), (10, 61152), (11, 61185),

Gene: Erdmann_119 Start: 62186, Stop: 62476, Start Num: 1

Candidate Starts for Erdmann_119:

(Start: 1 @62186 has 167 MA's), (3, 62225), (4, 62243), (5, 62306), (6, 62324), (10, 62405), (11, 62438),

Gene: ErnieJ_113 Start: 60165, Stop: 60455, Start Num: 1

Candidate Starts for ErnieJ_113:

(Start: 1 @60165 has 167 MA's), (3, 60204), (4, 60222), (5, 60285), (6, 60303), (10, 60384), (11, 60417),

Gene: Essence_116 Start: 61034, Stop: 61324, Start Num: 1

Candidate Starts for Essence_116:

(Start: 1 @61034 has 167 MA's), (3, 61073), (4, 61091), (5, 61154), (6, 61172), (10, 61253), (11, 61286),

Gene: Ewok_120 Start: 61573, Stop: 61863, Start Num: 1

Candidate Starts for Ewok_120:

(Start: 1 @61573 has 167 MA's), (3, 61612), (4, 61630), (5, 61693), (6, 61711), (10, 61792), (11, 61825),

Gene: Flabslab_113 Start: 59265, Stop: 59555, Start Num: 1

Candidate Starts for Flabslab_113:

(Start: 1 @59265 has 167 MA's), (3, 59304), (4, 59322), (5, 59385), (6, 59403), (10, 59484), (11, 59517),

Gene: Fludd_119 Start: 60796, Stop: 61086, Start Num: 1

Candidate Starts for Fludd_119:

(Start: 1 @60796 has 167 MA's), (3, 60835), (4, 60853), (5, 60916), (6, 60934), (10, 61015), (11, 61048),

Gene: FoxtrotP1_119 Start: 63356, Stop: 63646, Start Num: 1

Candidate Starts for FoxtrotP1_119:

(Start: 1 @63356 has 167 MA's), (3, 63395), (4, 63413), (5, 63476), (6, 63494), (10, 63575), (11, 63608),

Gene: FrayBell_124 Start: 62520, Stop: 62810, Start Num: 1

Candidate Starts for FrayBell_124:

(Start: 1 @62520 has 167 MA's), (3, 62559), (4, 62577), (5, 62640), (6, 62658), (10, 62739), (11, 62772),

Gene: FudgeTart_117 Start: 61216, Stop: 61506, Start Num: 1

Candidate Starts for FudgeTart_117:

(Start: 1 @61216 has 167 MA's), (3, 61255), (4, 61273), (5, 61336), (6, 61354), (10, 61435), (11, 61468),

Gene: Gabriel_119 Start: 60440, Stop: 60730, Start Num: 1

Candidate Starts for Gabriel_119:

(Start: 1 @60440 has 167 MA's), (3, 60479), (4, 60497), (5, 60560), (6, 60578), (10, 60659), (11, 60692),

Gene: Gamgam_119 Start: 60714, Stop: 61004, Start Num: 1

Candidate Starts for Gamgam_119:

(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: Ghost_117 Start: 60714, Stop: 61004, Start Num: 1

Candidate Starts for Ghost_117:

(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: Gizmo_123 Start: 63336, Stop: 63626, Start Num: 1

Candidate Starts for Gizmo_123:

(Start: 1 @63336 has 167 MA's), (3, 63375), (4, 63393), (5, 63456), (6, 63474), (10, 63555), (11, 63588),

Gene: Grasshills_125 Start: 64143, Stop: 64433, Start Num: 1

Candidate Starts for Grasshills_125:

(Start: 1 @64143 has 167 MA's), (3, 64182), (4, 64200), (5, 64263), (6, 64281), (10, 64362), (11, 64395),

Gene: Greely_118 Start: 63422, Stop: 63694, Start Num: 2

Candidate Starts for Greely_118:

(Start: 2 @63422 has 3 MA's), (5, 63509), (7, 63533), (8, 63536), (9, 63578), (10, 63608),

Gene: Grungle_106 Start: 58458, Stop: 58748, Start Num: 1

Candidate Starts for Grungle_106:

(Start: 1 @58458 has 167 MA's), (3, 58497), (4, 58515), (5, 58578), (6, 58596), (10, 58677), (11, 58710),

Gene: Guwapp_118 Start: 60605, Stop: 60895, Start Num: 1

Candidate Starts for Guwapp_118:

(Start: 1 @60605 has 167 MA's), (3, 60644), (4, 60662), (5, 60725), (6, 60743), (10, 60824), (11, 60857),

Gene: HyRo_109 Start: 60721, Stop: 61011, Start Num: 1

Candidate Starts for HyRo_109:

(Start: 1 @60721 has 167 MA's), (3, 60760), (4, 60778), (5, 60841), (6, 60859), (10, 60940), (11, 60973),

Gene: I3_124 Start: 62671, Stop: 62961, Start Num: 1

Candidate Starts for I3_124:

(Start: 1 @62671 has 167 MA's), (3, 62710), (4, 62728), (5, 62791), (6, 62809), (10, 62890), (11, 62923),

Gene: IkeLoa_112 Start: 60540, Stop: 60830, Start Num: 1

Candidate Starts for IkeLoa_112:

(Start: 1 @60540 has 167 MA's), (3, 60579), (4, 60597), (5, 60660), (6, 60678), (10, 60759), (11, 60792),

Gene: InigoMontoya_120 Start: 60675, Stop: 60965, Start Num: 1

Candidate Starts for InigoMontoya_120:

(Start: 1 @60675 has 167 MA's), (3, 60714), (4, 60732), (5, 60795), (6, 60813), (10, 60894), (11, 60927),

Gene: InterFolia_125 Start: 63455, Stop: 63745, Start Num: 1

Candidate Starts for InterFolia_125:

(Start: 1 @63455 has 167 MA's), (3, 63494), (4, 63512), (5, 63575), (6, 63593), (10, 63674), (11, 63707),

Gene: Iota_114 Start: 61152, Stop: 61442, Start Num: 1

Candidate Starts for Iota_114:

(Start: 1 @61152 has 167 MA's), (3, 61191), (4, 61209), (5, 61272), (6, 61290), (10, 61371), (11, 61404),

Gene: Issimir_117 Start: 62160, Stop: 62450, Start Num: 1
Candidate Starts for Issimir_117:
(Start: 1 @62160 has 167 MA's), (3, 62199), (4, 62217), (5, 62280), (6, 62298), (10, 62379), (11, 62412),

Gene: Izajani_119 Start: 62366, Stop: 62656, Start Num: 1
Candidate Starts for Izajani_119:
(Start: 1 @62366 has 167 MA's), (3, 62405), (4, 62423), (5, 62486), (6, 62504), (10, 62585), (11, 62618),

Gene: JPickles_116 Start: 59945, Stop: 60235, Start Num: 1
Candidate Starts for JPickles_116:
(Start: 1 @59945 has 167 MA's), (3, 59984), (4, 60002), (5, 60065), (6, 60083), (10, 60164), (11, 60197),

Gene: Janiyra_121 Start: 61641, Stop: 61931, Start Num: 1
Candidate Starts for Janiyra_121:
(Start: 1 @61641 has 167 MA's), (3, 61680), (4, 61698), (5, 61761), (6, 61779), (10, 61860), (11, 61893),

Gene: JayJay_119 Start: 63151, Stop: 63441, Start Num: 1
Candidate Starts for JayJay_119:
(Start: 1 @63151 has 167 MA's), (3, 63190), (4, 63208), (5, 63271), (6, 63289), (10, 63370), (11, 63403),

Gene: Jaygup_119 Start: 61470, Stop: 61760, Start Num: 1
Candidate Starts for Jaygup_119:
(Start: 1 @61470 has 167 MA's), (3, 61509), (4, 61527), (5, 61590), (6, 61608), (10, 61689), (11, 61722),

Gene: Jedediah_122 Start: 62003, Stop: 62293, Start Num: 1
Candidate Starts for Jedediah_122:
(Start: 1 @62003 has 167 MA's), (3, 62042), (4, 62060), (5, 62123), (6, 62141), (10, 62222), (11, 62255),

Gene: Jemmno_119 Start: 61450, Stop: 61740, Start Num: 1
Candidate Starts for Jemmno_119:
(Start: 1 @61450 has 167 MA's), (3, 61489), (4, 61507), (5, 61570), (6, 61588), (10, 61669), (11, 61702),

Gene: Jessibeth14_118 Start: 61982, Stop: 62272, Start Num: 1
Candidate Starts for Jessibeth14_118:
(Start: 1 @61982 has 167 MA's), (3, 62021), (4, 62039), (5, 62102), (6, 62120), (10, 62201), (11, 62234),

Gene: JulietS_113 Start: 59337, Stop: 59627, Start Num: 1
Candidate Starts for JulietS_113:
(Start: 1 @59337 has 167 MA's), (3, 59376), (4, 59394), (5, 59457), (6, 59475), (10, 59556), (11, 59589),

Gene: JustHall_116 Start: 61509, Stop: 61799, Start Num: 1
Candidate Starts for JustHall_116:

(Start: 1 @61509 has 167 MA's), (3, 61548), (4, 61566), (5, 61629), (6, 61647), (10, 61728), (11, 61761),

Gene: Kamryn_119 Start: 62787, Stop: 63077, Start Num: 1

Candidate Starts for Kamryn_119:

(Start: 1 @62787 has 167 MA's), (3, 62826), (4, 62844), (5, 62907), (6, 62925), (10, 63006), (11, 63039),

Gene: Kboogie_123 Start: 61153, Stop: 61443, Start Num: 1

Candidate Starts for Kboogie_123:

(Start: 1 @61153 has 167 MA's), (3, 61192), (4, 61210), (5, 61273), (6, 61291), (10, 61372), (11, 61405),

Gene: Khaleesi_118 Start: 62085, Stop: 62375, Start Num: 1

Candidate Starts for Khaleesi_118:

(Start: 1 @62085 has 167 MA's), (3, 62124), (4, 62142), (5, 62205), (6, 62223), (10, 62304), (11, 62337),

Gene: Koguma_116 Start: 59630, Stop: 59920, Start Num: 1

Candidate Starts for Koguma_116:

(Start: 1 @59630 has 167 MA's), (3, 59669), (4, 59687), (5, 59750), (6, 59768), (10, 59849), (11, 59882),

Gene: LRRHood_112 Start: 61428, Stop: 61718, Start Num: 1

Candidate Starts for LRRHood_112:

(Start: 1 @61428 has 167 MA's), (3, 61467), (4, 61485), (5, 61548), (6, 61566), (10, 61647), (11, 61680),

Gene: Latch_119 Start: 60714, Stop: 61004, Start Num: 1

Candidate Starts for Latch_119:

(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: Lee7_116 Start: 62719, Stop: 63009, Start Num: 1

Candidate Starts for Lee7_116:

(Start: 1 @62719 has 167 MA's), (3, 62758), (4, 62776), (5, 62839), (6, 62857), (10, 62938), (11, 62971),

Gene: LifeSavor_117 Start: 61402, Stop: 61692, Start Num: 1

Candidate Starts for LifeSavor_117:

(Start: 1 @61402 has 167 MA's), (3, 61441), (4, 61459), (5, 61522), (6, 61540), (10, 61621), (11, 61654),

Gene: LinStu_117 Start: 62046, Stop: 62336, Start Num: 1

Candidate Starts for LinStu_117:

(Start: 1 @62046 has 167 MA's), (3, 62085), (4, 62103), (5, 62166), (6, 62184), (10, 62265), (11, 62298),

Gene: Littleton_119 Start: 61532, Stop: 61822, Start Num: 1

Candidate Starts for Littleton_119:

(Start: 1 @61532 has 167 MA's), (3, 61571), (4, 61589), (5, 61652), (6, 61670), (10, 61751), (11, 61784),

Gene: Loanshark_118 Start: 62053, Stop: 62343, Start Num: 1

Candidate Starts for Loanshark_118:

(Start: 1 @62053 has 167 MA's), (3, 62092), (4, 62110), (5, 62173), (6, 62191), (10, 62272), (11, 62305),

Gene: LolaVinca_119 Start: 62405, Stop: 62695, Start Num: 1

Candidate Starts for LolaVinca_119:

(Start: 1 @62405 has 167 MA's), (3, 62444), (4, 62462), (5, 62525), (6, 62543), (10, 62624), (11, 62657),

Gene: LordLeafolot_122 Start: 63372, Stop: 63662, Start Num: 1

Candidate Starts for LordLeafolot_122:

(Start: 1 @63372 has 167 MA's), (3, 63411), (4, 63429), (5, 63492), (6, 63510), (10, 63591), (11, 63624),

Gene: Lukilu_109 Start: 62438, Stop: 62728, Start Num: 1

Candidate Starts for Lukilu_109:

(Start: 1 @62438 has 167 MA's), (3, 62477), (4, 62495), (5, 62558), (6, 62576), (10, 62657), (11, 62690),

Gene: Maby2021_119 Start: 62179, Stop: 62469, Start Num: 1

Candidate Starts for Maby2021_119:

(Start: 1 @62179 has 167 MA's), (3, 62218), (4, 62236), (5, 62299), (6, 62317), (10, 62398), (11, 62431),

Gene: Mangeria_119 Start: 62248, Stop: 62538, Start Num: 1

Candidate Starts for Mangeria_119:

(Start: 1 @62248 has 167 MA's), (3, 62287), (4, 62305), (5, 62368), (6, 62386), (10, 62467), (11, 62500),

Gene: Matsumoto_115 Start: 61030, Stop: 61320, Start Num: 1

Candidate Starts for Matsumoto_115:

(Start: 1 @61030 has 167 MA's), (3, 61069), (4, 61087), (5, 61150), (6, 61168), (10, 61249), (11, 61282),

Gene: McGee_121 Start: 60794, Stop: 61084, Start Num: 1

Candidate Starts for McGee_121:

(Start: 1 @60794 has 167 MA's), (3, 60833), (4, 60851), (5, 60914), (6, 60932), (10, 61013), (11, 61046),

Gene: McWolfish_117 Start: 61968, Stop: 62258, Start Num: 1

Candidate Starts for McWolfish_117:

(Start: 1 @61968 has 167 MA's), (3, 62007), (4, 62025), (5, 62088), (6, 62106), (10, 62187), (11, 62220),

Gene: Megamind_118 Start: 61852, Stop: 62142, Start Num: 1

Candidate Starts for Megamind_118:

(Start: 1 @61852 has 167 MA's), (3, 61891), (4, 61909), (5, 61972), (6, 61990), (10, 62071), (11, 62104),

Gene: Melpomini_113 Start: 59318, Stop: 59608, Start Num: 1

Candidate Starts for Melpomini_113:

(Start: 1 @59318 has 167 MA's), (3, 59357), (4, 59375), (5, 59438), (6, 59456), (10, 59537), (11, 59570),

Gene: MikeLiesIn_120 Start: 62199, Stop: 62489, Start Num: 1

Candidate Starts for MikeLiesIn_120:

(Start: 1 @62199 has 167 MA's), (3, 62238), (4, 62256), (5, 62319), (6, 62337), (10, 62418), (11, 62451),

Gene: Mikro_116 Start: 63422, Stop: 63712, Start Num: 1

Candidate Starts for Mikro_116:

(Start: 1 @63422 has 167 MA's), (3, 63461), (4, 63479), (5, 63542), (6, 63560), (10, 63641), (11, 63674),

Gene: MoMoMixon_119 Start: 61675, Stop: 61965, Start Num: 1

Candidate Starts for MoMoMixon_119:

(Start: 1 @61675 has 167 MA's), (3, 61714), (4, 61732), (5, 61795), (6, 61813), (10, 61894), (11, 61927),

Gene: Momo_118 Start: 60714, Stop: 61004, Start Num: 1

Candidate Starts for Momo_118:

(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: Morizzled23_119 Start: 61079, Stop: 61369, Start Num: 1

Candidate Starts for Morizzled23_119:

(Start: 1 @61079 has 167 MA's), (3, 61118), (4, 61136), (5, 61199), (6, 61217), (10, 61298), (11, 61331),

Gene: Myrna_116 Start: 64667, Stop: 64939, Start Num: 2

Candidate Starts for Myrna_116:

(Start: 2 @64667 has 3 MA's), (3, 64673), (5, 64754), (8, 64781), (9, 64823), (10, 64853),

Gene: Naija_118 Start: 60714, Stop: 61004, Start Num: 1

Candidate Starts for Naija_118:

(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: Napoleon13_115 Start: 59756, Stop: 60046, Start Num: 1

Candidate Starts for Napoleon13_115:

(Start: 1 @59756 has 167 MA's), (3, 59795), (4, 59813), (5, 59876), (6, 59894), (10, 59975), (11, 60008),

Gene: Nappy_121 Start: 63109, Stop: 63399, Start Num: 1

Candidate Starts for Nappy_121:

(Start: 1 @63109 has 167 MA's), (3, 63148), (4, 63166), (5, 63229), (6, 63247), (10, 63328), (11, 63361),

Gene: Naval22_123 Start: 63642, Stop: 63932, Start Num: 1

Candidate Starts for Naval22_123:

(Start: 1 @63642 has 167 MA's), (3, 63681), (4, 63699), (5, 63762), (6, 63780), (10, 63861), (11, 63894),

Gene: NedWong_120 Start: 62186, Stop: 62476, Start Num: 1

Candidate Starts for NedWong_120:

(Start: 1 @62186 has 167 MA's), (3, 62225), (4, 62243), (5, 62306), (6, 62324), (10, 62405), (11, 62438),

Gene: Ngannou_115 Start: 59696, Stop: 59986, Start Num: 1

Candidate Starts for Ngannou_115:

(Start: 1 @59696 has 167 MA's), (3, 59735), (4, 59753), (5, 59816), (6, 59834), (10, 59915), (11, 59948),

Gene: Nidhogg_120 Start: 61920, Stop: 62210, Start Num: 1

Candidate Starts for Nidhogg_120:

(Start: 1 @61920 has 167 MA's), (3, 61959), (4, 61977), (5, 62040), (6, 62058), (10, 62139), (11, 62172),

Gene: NoodleTree_126 Start: 62279, Stop: 62569, Start Num: 1

Candidate Starts for NoodleTree_126:

(Start: 1 @62279 has 167 MA's), (3, 62318), (4, 62336), (5, 62399), (6, 62417), (10, 62498), (11, 62531),

Gene: Norm_120 Start: 62881, Stop: 63171, Start Num: 1

Candidate Starts for Norm_120:

(Start: 1 @62881 has 167 MA's), (3, 62920), (4, 62938), (5, 63001), (6, 63019), (10, 63100), (11, 63133),

Gene: NuevoMundo_124 Start: 64460, Stop: 64750, Start Num: 1

Candidate Starts for NuevoMundo_124:

(Start: 1 @64460 has 167 MA's), (3, 64499), (4, 64517), (5, 64580), (6, 64598), (10, 64679), (11, 64712),

Gene: ParkTD_120 Start: 62182, Stop: 62472, Start Num: 1

Candidate Starts for ParkTD_120:

(Start: 1 @62182 has 167 MA's), (3, 62221), (4, 62239), (5, 62302), (6, 62320), (10, 62401), (11, 62434),

Gene: Patter_119 Start: 60731, Stop: 61021, Start Num: 1

Candidate Starts for Patter_119:

(Start: 1 @60731 has 167 MA's), (3, 60770), (4, 60788), (5, 60851), (6, 60869), (10, 60950), (11, 60983),

Gene: Phabba_120 Start: 63135, Stop: 63407, Start Num: 2

Candidate Starts for Phabba_120:

(Start: 2 @63135 has 3 MA's), (5, 63222), (7, 63246), (8, 63249), (9, 63291),

Gene: Phlegm_121 Start: 60714, Stop: 61004, Start Num: 1

Candidate Starts for Phlegm_121:

(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: Phox_116 Start: 62462, Stop: 62752, Start Num: 1

Candidate Starts for Phox_116:

(Start: 1 @62462 has 167 MA's), (3, 62501), (4, 62519), (5, 62582), (6, 62600), (10, 62681), (11, 62714),

Gene: Phusco_119 Start: 61479, Stop: 61769, Start Num: 1

Candidate Starts for Phusco_119:

(Start: 1 @61479 has 167 MA's), (3, 61518), (4, 61536), (5, 61599), (6, 61617), (10, 61698), (11, 61731),

Gene: Pier_123 Start: 64468, Stop: 64758, Start Num: 1

Candidate Starts for Pier_123:

(Start: 1 @64468 has 167 MA's), (3, 64507), (4, 64525), (5, 64588), (6, 64606), (10, 64687), (11, 64720),

Gene: Pinkcreek_110 Start: 59813, Stop: 60103, Start Num: 1

Candidate Starts for Pinkcreek_110:

(Start: 1 @59813 has 167 MA's), (3, 59852), (4, 59870), (5, 59933), (6, 59951), (10, 60032), (11, 60065),

Gene: Pio_123 Start: 64071, Stop: 64361, Start Num: 1

Candidate Starts for Pio_123:

(Start: 1 @64071 has 167 MA's), (3, 64110), (4, 64128), (5, 64191), (6, 64209), (10, 64290), (11, 64323),

Gene: Pivoine_118 Start: 60714, Stop: 61004, Start Num: 1

Candidate Starts for Pivoine_118:

(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: Pleione_122 Start: 62349, Stop: 62639, Start Num: 1

Candidate Starts for Pleione_122:

(Start: 1 @62349 has 167 MA's), (3, 62388), (4, 62406), (5, 62469), (6, 62487), (10, 62568), (11, 62601),

Gene: PurduePete_119 Start: 62606, Stop: 62896, Start Num: 1

Candidate Starts for PurduePete_119:

(Start: 1 @62606 has 167 MA's), (3, 62645), (4, 62663), (5, 62726), (6, 62744), (10, 62825), (11, 62858),

Gene: QBert_113 Start: 61186, Stop: 61476, Start Num: 1

Candidate Starts for QBert_113:

(Start: 1 @61186 has 167 MA's), (3, 61225), (4, 61243), (5, 61306), (6, 61324), (10, 61405),

Gene: Quasimodo_120 Start: 62141, Stop: 62431, Start Num: 1

Candidate Starts for Quasimodo_120:

(Start: 1 @62141 has 167 MA's), (3, 62180), (4, 62198), (5, 62261), (6, 62279), (10, 62360), (11, 62393),

Gene: Rabinovish_116 Start: 62379, Stop: 62669, Start Num: 1

Candidate Starts for Rabinovish_116:

(Start: 1 @62379 has 167 MA's), (3, 62418), (4, 62436), (5, 62499), (6, 62517), (10, 62598), (11, 62631),

Gene: Rahel_118 Start: 61071, Stop: 61361, Start Num: 1

Candidate Starts for Rahel_118:

(Start: 1 @61071 has 167 MA's), (3, 61110), (4, 61128), (5, 61191), (6, 61209), (10, 61290), (11, 61323),

Gene: Rizal_114 Start: 60219, Stop: 60509, Start Num: 1
Candidate Starts for Rizal_114:
(Start: 1 @60219 has 167 MA's), (3, 60258), (4, 60276), (5, 60339), (6, 60357), (10, 60438), (11, 60471),

Gene: RoMag_114 Start: 61392, Stop: 61682, Start Num: 1
Candidate Starts for RoMag_114:
(Start: 1 @61392 has 167 MA's), (3, 61431), (4, 61449), (5, 61512), (6, 61530), (10, 61611), (11, 61644),

Gene: Ronan_113 Start: 59342, Stop: 59632, Start Num: 1
Candidate Starts for Ronan_113:
(Start: 1 @59342 has 167 MA's), (3, 59381), (4, 59399), (5, 59462), (6, 59480), (10, 59561), (11, 59594),

Gene: Roots515_117 Start: 62379, Stop: 62669, Start Num: 1
Candidate Starts for Roots515_117:
(Start: 1 @62379 has 167 MA's), (3, 62418), (4, 62436), (5, 62499), (6, 62517), (10, 62598), (11, 62631),

Gene: Salacia_123 Start: 62520, Stop: 62810, Start Num: 1
Candidate Starts for Salacia_123:
(Start: 1 @62520 has 167 MA's), (3, 62559), (4, 62577), (5, 62640), (6, 62658), (10, 62739), (11, 62772),

Gene: Sauce_119 Start: 61126, Stop: 61416, Start Num: 1
Candidate Starts for Sauce_119:
(Start: 1 @61126 has 167 MA's), (3, 61165), (4, 61183), (5, 61246), (6, 61264), (10, 61345), (11, 61378),

Gene: ScoobyDoobyDoo_111 Start: 62543, Stop: 62815, Start Num: 2
Candidate Starts for ScoobyDoobyDoo_111:
(Start: 2 @62543 has 3 MA's), (5, 62630), (7, 62654), (9, 62699),

Gene: ScottMcG_115 Start: 61142, Stop: 61432, Start Num: 1
Candidate Starts for ScottMcG_115:
(Start: 1 @61142 has 167 MA's), (3, 61181), (4, 61199), (5, 61262), (6, 61280), (10, 61361), (11, 61394),

Gene: Sebata_119 Start: 62604, Stop: 62894, Start Num: 1
Candidate Starts for Sebata_119:
(Start: 1 @62604 has 167 MA's), (3, 62643), (4, 62661), (5, 62724), (6, 62742), (10, 62823), (11, 62856),

Gene: Shaqnato_112 Start: 60186, Stop: 60476, Start Num: 1
Candidate Starts for Shaqnato_112:
(Start: 1 @60186 has 167 MA's), (3, 60225), (4, 60243), (5, 60306), (6, 60324), (10, 60405), (11, 60438),

Gene: Shelob_121 Start: 62978, Stop: 63268, Start Num: 1
Candidate Starts for Shelob_121:

(Start: 1 @62978 has 167 MA's), (3, 63017), (4, 63035), (5, 63098), (6, 63116), (10, 63197), (11, 63230),

Gene: ShiaLabeouf_118 Start: 61506, Stop: 61796, Start Num: 1

Candidate Starts for ShiaLabeouf_118:

(Start: 1 @61506 has 167 MA's), (3, 61545), (4, 61563), (5, 61626), (6, 61644), (10, 61725), (11, 61758),

Gene: Shifa_107 Start: 59987, Stop: 60277, Start Num: 1

Candidate Starts for Shifa_107:

(Start: 1 @59987 has 167 MA's), (3, 60026), (4, 60044), (5, 60107), (6, 60125), (10, 60206), (11, 60239),

Gene: Shnickers_119 Start: 61470, Stop: 61760, Start Num: 1

Candidate Starts for Shnickers_119:

(Start: 1 @61470 has 167 MA's), (3, 61509), (4, 61527), (5, 61590), (6, 61608), (10, 61689), (11, 61722),

Gene: Shrimp_119 Start: 62190, Stop: 62480, Start Num: 1

Candidate Starts for Shrimp_119:

(Start: 1 @62190 has 167 MA's), (3, 62229), (4, 62247), (5, 62310), (6, 62328), (10, 62409), (11, 62442),

Gene: SilverDipper_120 Start: 60714, Stop: 61004, Start Num: 1

Candidate Starts for SilverDipper_120:

(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: SmallFry_119 Start: 60695, Stop: 60985, Start Num: 1

Candidate Starts for SmallFry_119:

(Start: 1 @60695 has 167 MA's), (3, 60734), (4, 60752), (5, 60815), (6, 60833), (10, 60914), (11, 60947),

Gene: Spec_114 Start: 61235, Stop: 61525, Start Num: 1

Candidate Starts for Spec_114:

(Start: 1 @61235 has 167 MA's), (3, 61274), (4, 61292), (5, 61355), (6, 61373), (10, 61454), (11, 61487),

Gene: Specks_124 Start: 63370, Stop: 63660, Start Num: 1

Candidate Starts for Specks_124:

(Start: 1 @63370 has 167 MA's), (3, 63409), (4, 63427), (5, 63490), (6, 63508), (10, 63589), (11, 63622),

Gene: Sprinklers_115 Start: 60751, Stop: 61041, Start Num: 1

Candidate Starts for Sprinklers_115:

(Start: 1 @60751 has 167 MA's), (3, 60790), (4, 60808), (5, 60871), (6, 60889), (10, 60970), (11, 61003),

Gene: Spud_118 Start: 62266, Stop: 62556, Start Num: 1

Candidate Starts for Spud_118:

(Start: 1 @62266 has 167 MA's), (3, 62305), (4, 62323), (5, 62386), (6, 62404), (10, 62485), (11, 62518),

Gene: SrishMeg2525_118 Start: 62288, Stop: 62578, Start Num: 1

Candidate Starts for SrishMeg2525_118:

(Start: 1 @62288 has 167 MA's), (3, 62327), (4, 62345), (5, 62408), (6, 62426), (10, 62507), (11, 62540),

Gene: StephanieG_117 Start: 63097, Stop: 63387, Start Num: 1

Candidate Starts for StephanieG_117:

(Start: 1 @63097 has 167 MA's), (3, 63136), (4, 63154), (5, 63217), (6, 63235), (10, 63316), (11, 63349),

Gene: Stubby_111 Start: 60303, Stop: 60593, Start Num: 1

Candidate Starts for Stubby_111:

(Start: 1 @60303 has 167 MA's), (3, 60342), (4, 60360), (5, 60423), (6, 60441), (10, 60522), (11, 60555),

Gene: StubbySaigey_122 Start: 60884, Stop: 61174, Start Num: 1

Candidate Starts for StubbySaigey_122:

(Start: 1 @60884 has 167 MA's), (3, 60923), (4, 60941), (5, 61004), (6, 61022), (10, 61103), (11, 61136),

Gene: Teardrop_118 Start: 60694, Stop: 60984, Start Num: 1

Candidate Starts for Teardrop_118:

(Start: 1 @60694 has 167 MA's), (3, 60733), (4, 60751), (5, 60814), (6, 60832), (10, 60913), (11, 60946),

Gene: TinyTim_119 Start: 61946, Stop: 62236, Start Num: 1

Candidate Starts for TinyTim_119:

(Start: 1 @61946 has 167 MA's), (3, 61985), (4, 62003), (5, 62066), (6, 62084), (10, 62165), (11, 62198),

Gene: Tonenili_133 Start: 65440, Stop: 65730, Start Num: 1

Candidate Starts for Tonenili_133:

(Start: 1 @65440 has 167 MA's), (3, 65479), (4, 65497), (5, 65560), (11, 65692),

Gene: Tortoise16_116 Start: 61295, Stop: 61585, Start Num: 1

Candidate Starts for Tortoise16_116:

(Start: 1 @61295 has 167 MA's), (3, 61334), (4, 61352), (5, 61415), (6, 61433), (10, 61514), (11, 61547),

Gene: Trinitium_116 Start: 60650, Stop: 60940, Start Num: 1

Candidate Starts for Trinitium_116:

(Start: 1 @60650 has 167 MA's), (3, 60689), (4, 60707), (5, 60770), (6, 60788), (10, 60869), (11, 60902),

Gene: Turret_114 Start: 60095, Stop: 60385, Start Num: 1

Candidate Starts for Turret_114:

(Start: 1 @60095 has 167 MA's), (3, 60134), (4, 60152), (5, 60215), (6, 60233), (10, 60314), (11, 60347),

Gene: Tyke_119 Start: 62601, Stop: 62891, Start Num: 1

Candidate Starts for Tyke_119:

(Start: 1 @62601 has 167 MA's), (3, 62640), (4, 62658), (5, 62721), (6, 62739), (10, 62820), (11, 62853),

Gene: ValleyTerrace_119 Start: 60714, Stop: 61004, Start Num: 1
Candidate Starts for ValleyTerrace_119:
(Start: 1 @60714 has 167 MA's), (3, 60753), (4, 60771), (5, 60834), (6, 60852), (10, 60933), (11, 60966),

Gene: Wally_118 Start: 60724, Stop: 61014, Start Num: 1
Candidate Starts for Wally_118:
(Start: 1 @60724 has 167 MA's), (3, 60763), (4, 60781), (5, 60844), (6, 60862), (10, 60943), (11, 60976),

Gene: Willis_120 Start: 62081, Stop: 62371, Start Num: 1
Candidate Starts for Willis_120:
(Start: 1 @62081 has 167 MA's), (3, 62120), (4, 62138), (5, 62201), (6, 62219), (10, 62300), (11, 62333),

Gene: Yassified_116 Start: 60801, Stop: 61091, Start Num: 1
Candidate Starts for Yassified_116:
(Start: 1 @60801 has 167 MA's), (3, 60840), (4, 60858), (5, 60921), (6, 60939), (10, 61020), (11, 61053),

Gene: YemiJoy2021_120 Start: 62183, Stop: 62473, Start Num: 1
Candidate Starts for YemiJoy2021_120:
(Start: 1 @62183 has 167 MA's), (3, 62222), (4, 62240), (5, 62303), (6, 62321), (10, 62402), (11, 62435),

Gene: YoungMoneyMata_120 Start: 61350, Stop: 61640, Start Num: 1
Candidate Starts for YoungMoneyMata_120:
(Start: 1 @61350 has 167 MA's), (3, 61389), (4, 61407), (5, 61470), (6, 61488), (10, 61569), (11, 61602),

Gene: Yucca_118 Start: 61865, Stop: 62155, Start Num: 1
Candidate Starts for Yucca_118:
(Start: 1 @61865 has 167 MA's), (3, 61904), (4, 61922), (5, 61985), (6, 62003), (10, 62084), (11, 62117),

Gene: Zalkecks_120 Start: 61866, Stop: 62156, Start Num: 1
Candidate Starts for Zalkecks_120:
(Start: 1 @61866 has 167 MA's), (3, 61905), (4, 61923), (5, 61986), (6, 62004), (10, 62085), (11, 62118),

Gene: Zeenon_120 Start: 61951, Stop: 62241, Start Num: 1
Candidate Starts for Zeenon_120:
(Start: 1 @61951 has 167 MA's), (3, 61990), (4, 62008), (5, 62071), (6, 62089), (10, 62170), (11, 62203),

Gene: ZygoTaiga_117 Start: 63111, Stop: 63401, Start Num: 1
Candidate Starts for ZygoTaiga_117:
(Start: 1 @63111 has 167 MA's), (3, 63150), (4, 63168), (5, 63231), (6, 63249), (10, 63330), (11, 63363),