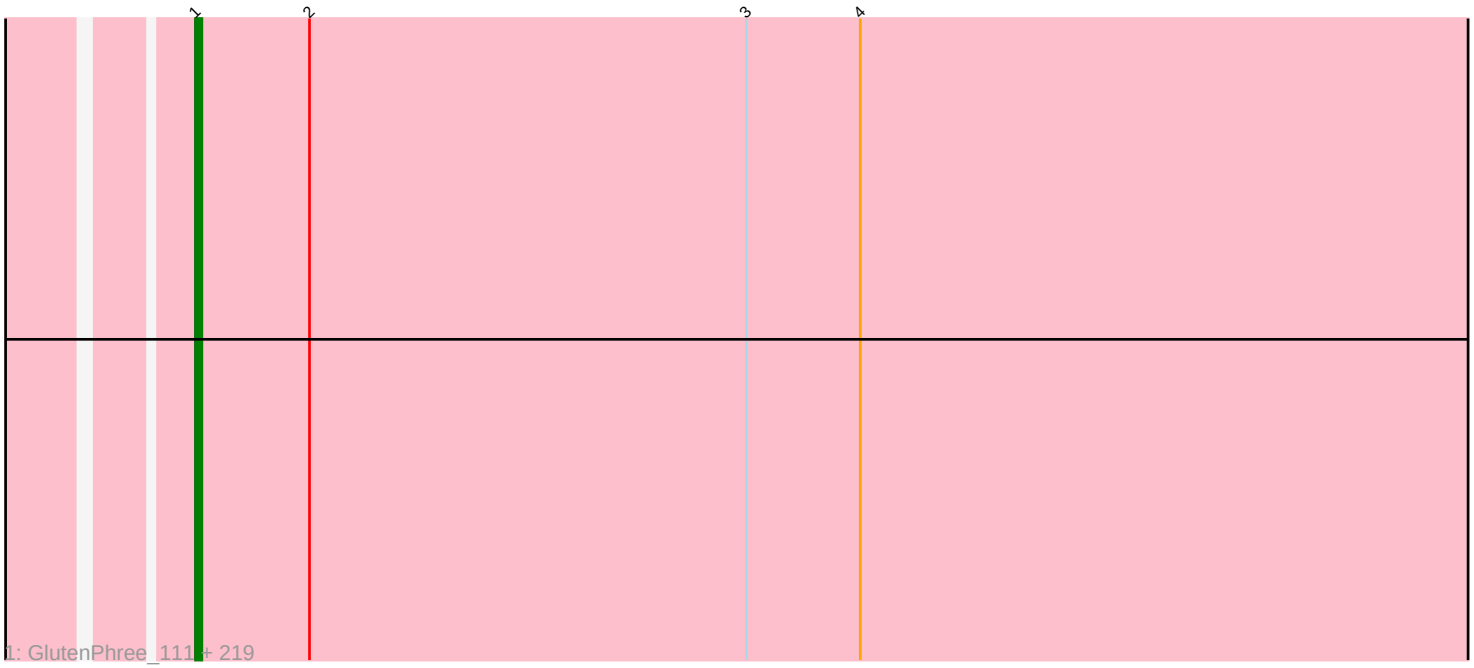
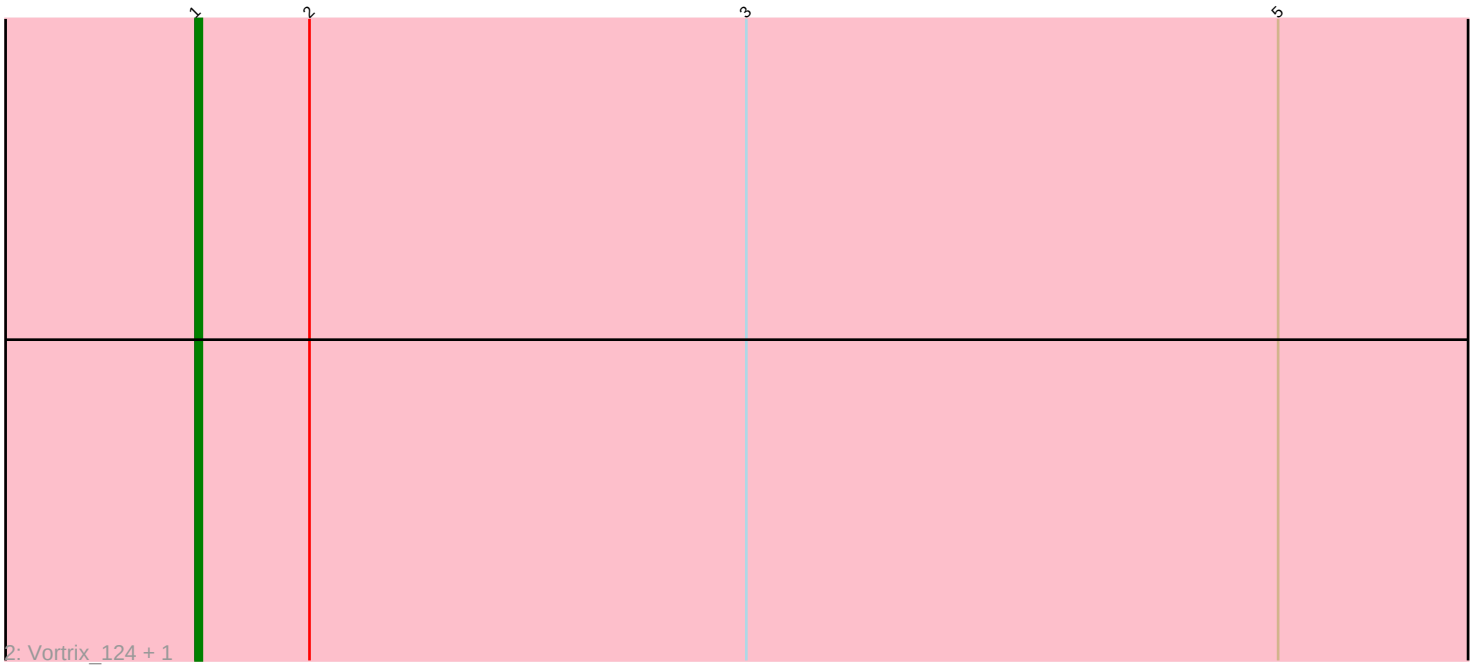
Pham 345375





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 345375 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345375 has 222 members, 30 are drafts.

Phages represented in each track:
• Track 1 : GlutenPhree_111, Ghost_109, Rocha_109, Caravan_105, Essence_107, BadAgartude_106, ET08_99, Bipolarisk_109, ValleyTerrace_110, Colt_101, BeanWater_102, Puhon_114, Chargie21_106, Naval22_118, Cactojaque_105, Gamgam_110, Naija_109, LRRHood_104, JigglyPuff_118, Ablatia_109, Drazdys_109, Fongie_108, Delylah_113, Cleatunium_104, ShiaLabeouf_109, Rizal_106, Khaleesi_109, LordLeafolot_115, CindyLou_111, ArcherS7_109, Spud_110, Atlantean_109, NedWong_111, EasyJones_112, Maturis_108, JayJay_115, IkeLoa_103, Delilah_110, Ewok_111, DTDevon_111, Melpomini_104, Koguma_107, Grasshills_117, CharlieB_106, SiwenD96_112, Kboogie_114, ErnieJ_105, SrishMeg2525_109, LookingGlass_111, Loanshark_109, ChaylaJr_105, Shelob_112, Jessibeth14_109, Blackdragon_106, Sebata_111, Bigswole_114, Erdmann_111, Yassified_107, Derek_110, ParkTD_111, Astraea_107, Jaygup_110, Roots515_109, FoxtrotP1_110, EggyFarm_118, Duckfeet_103, Spec_107, Quasimodo_111, Moiqah_101, LolaVinca_111, OrediggerDelux_113, GoldenSnow_114, Mikro_108, Gizmo_114, Jezreel_110, Tainan_114, PharkleMinkus_113, Issimir_109, BackyardAgain_107, Wally_109, Mangeria_110, Blubba_100, Rahel_109, StephanieG_109, Shrimp_110, Maguvora_115, Trinitium_107, HyRo_101, Phlegm_112, YoungMoneyMata_111, Cali_106, Pier_115, Dietrick_102, Amataga_110, Ading_110, Momo_109, Napoleon13_106, Sprinklers_106, Catera_107, TinyTim_110, YemiJoy2021_111, InterFolia_117, ZygoTaiga_109, QBert_104, MoMoMixon_111, Breeniome_109, Rabinovish_108, ChickenPhender_106, ScottMcG_107, Burrough_110, Basquiat_106, JPickles_108, Bonray_110, DirtMonster_104, Cane17_100, MikeLiesIn_111, Jemmno_110, Stubby_102, Zeenon_112, Flabslab_104, Matsumoto_108, Megamind_109, BananaFence_109, Adlitam_110, Sauce_110, JustHall_107, McGee_112, Fixie_103, DrPhinkDaddy_109, SmallFry_110, Shifa_98, RoMag_105, Latch_110, Grungle_98, Bread_110, Shnickers_110, Pinkcreek_101, Ngannou_106, Tortoise16_107, StubbySaigey_113, Specks_115, Chomp_109, Audrick_112, Morizzled23_110, Shaqnato_103, InigoMontoya_111, Ava3_111, Kamryn_110, JulietS_104, Norm_111, Belieber_106, Janiyra_112, Substance289_108, Bowman_112, Turret_105, LinStu_109, NoodleTree_117, Salacia_114, EmmaElysia_110, Ronan_104, FrayBell_115, Phusco_110, Lunareta_109, Fludd_110, Blackbrain_105, Jedediah_113, SVoro_108, Primadonna_104, Phox_107, DeejaClivia_98, Moby_101, Zalkecks_111, NuevoMundo_116, Nidhogg_111, Littleton_110, Guwapp_109, McWolfish_108, Lukilu_101, Pupusa_116, Tyke_111, BigCity_118, EmToTheThree_112, Halldule_104, FudgeTart_109, Lee7_113, Iota_105, Dandelion_116, Yucca_110, SoilZilla_106, LifeSavor_109, Gabriel_111, Domi_104,

Bxz1_108, Asterius_113, BobaPhatt_107, PurduePete_110, Teardrop_109, Bangla1971_111, Montpel_109, Alice_103, Demodog_117, Willis_111, Dessert_110, Pio_114, I3_115, Capablanca_112, Pivoine_109, Labradorite_111, Lethe_109, Darko_110, Pleione_113, SilverDipper_111, Izajani_110, Maby2021_110, Nappy_113, Bezza_104, Concombre_116, Babyland_111, Daffodil_115, Patter_110
• Track 2 : Vortrix_124, Tonenili_125

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 192 of the 192 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_109, Ading_110, Adlitam_110, Alice_103, Amataga_110, ArcherS7_109, Asterius_113, Astraea_107, Atlantean_109, Audrick_112, Ava3_111, Babyland_111, BackyardAgain_107, BadAgartude_106, BananaFence_109, Bangla1971_111, Basquiat_106, BeanWater_102, Belieber_106, Bezza_104, BigCity_118, Bigswole_114, Bipolarisk_109, Blackbrain_105, Blackdragon_106, Blubba_100, BobaPhatt_107, Bonray_110, Bowman_112, Bread_110, Breeniome_109, Burrough_110, Bxz1_108, Cactojaque_105, Cali_106, Cane17_100, Capablanca_112, Caravan_105, Catera_107, Chargie21_106, CharlieB_106, ChaylaJr_105, ChickenPhender_106, Chomp_109, CindyLou_111, Cleatunium_104, Colt_101, Concombre_116, DTDevon_111, Daffodil_115, Dandelion_116, Darko_110, DeejaClivia_98, Delilah_110, Delylah_113, Demodog_117, Derek_110, Dessert_110, Dietrick_102, DirtMonster_104, Domi_104, DrPhinkDaddy_109, Drazdys_109, Duckfeet_103, ET08_99, EasyJones_112, EggyFarm_118, EmToTheThree_112, EmmaElysia_110, Erdmann_111, ErnieJ_105, Essence_107, Ewok_111, Fixie_103, Flabslab_104, Fludd_110, Fongie_108, FoxtrotP1_110, FrayBell_115, FudgeTart_109, Gabriel_111, Gamgam_110, Ghost_109, Gizmo_114, GlutenPhree_111, GoldenSnow_114, Grasshills_117, Grungle_98, Guwapp_109, Halldule_104, HyRo_101, I3_115, IkeLoa_103, InigoMontoya_111, InterFolia_117, Iota_105, Issimir_109, Izajani_110, JPickles_108, Janiyra_112, JayJay_115, Jaygup_110, Jedediah_113, Jemmno_110, Jessibeth14_109, Jezreel_110, JigglyPuff_118, JulietS_104, JustHall_107, Kamryn_110, Kboogie_114, Khaleesi_109, Koguma_107, LRRHood_104, Labradorite_111, Latch_110, Lee7_113, Lethe_109, LifeSavor_109, LinStu_109, Littleton_110, Loanshark_109, LolaVinca_111, LookingGlass_111, LordLeafolot_115, Lukilu_101, Lunareta_109, Maby2021_110, Maguvora_115, Mangeria_110, Matsumoto_108, Maturis_108, McGee_112, McWolfish_108, Megamind_109, Melpomini_104, MikeLiesIn_111, Mikro_108, MoMoMixon_111, Moby_101, Moiqah_101, Momo_109, Montpel_109, Morizzled23_110, Naija_109, Napoleon13_106, Nappy_113, Naval22_118, NedWong_111, Ngannou_106, Nidhogg_111, NoodleTree_117, Norm_111, NuevoMundo_116, OrediggerDelux_113, ParkTD_111, Patter_110, PharkleMinkus_113, Phlegm_112, Phox_107, Phusco_110, Pier_115, Pinkcreek_101, Pio_114, Pivoine_109, Pleione_113, Primadonna_104, Puhon_114, Pupusa_116, PurduePete_110, QBert_104, Quasimodo_111, Rabinovish_108, Rahel_109, Rizal_106, RoMag_105, Rocha_109, Ronan_104, Roots515_109, SVoro_108, Salacia_114, Sauce_110, ScottMcG_107, Sebata_111, Shaqnato_103, Shelob_112, ShiaLabeouf_109, Shifa_98, Shnickers_110, Shrimp_110, SilverDipper_111, SiwenD96_112, SmallFry_110, SoilZilla_106, Spec_107,

Specks_115, Sprinklers_106, Spud_110, SrishMeg2525_109, StephanieG_109, StubbySaigey_113, Stubby_102, Substance289_108, Tainan_114, Teardrop_109, TinyTim_110, Tonenili_125, Tortoise16_107, Trinitium_107, Turret_105, Tyke_111, ValleyTerrace_110, Vortrix_124, Wally_109, Willis_111, Yassified_107, YemiJoy2021_111, YoungMoneyMata_111, Yucca_110, Zalkecks_111, Zeenon_112, ZygoTaiga_109,

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

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

Summary by start number:

Start 1:
• Found in 222 of 222 (100.0%) of genes in pham
• Manual Annotations of this start: 192 of 192
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ablatia_109 (C1), Ading_110 (C1), Adlitam_110 (C1), Alice_103 (C1), Amataga_110 (C1), ArcherS7_109 (C1), Asterius_113 (C1), Astraea_107 (C1), Atlantean_109 (C1), Audrick_112 (C1), Ava3_111 (C1), Babyland_111 (C1), BackyardAgain_107 (C1), BadAgartude_106 (C1), BananaFence_109 (C1), Bangla1971_111 (C1), Basquiat_106 (C1), BeanWater_102 (C1), Belieber_106 (C1), Bezza_104 (C1), BigCity_118 (C1), Bigswole_114 (C1), Bipolarisk_109 (C1), Blackbrain_105 (C1), Blackdragon_106 (C1), Blubba_100 (C1), BobaPhatt_107 (C1), Bonray_110 (C1), Bowman_112 (C1), Bread_110 (C1), Breeniome_109 (C1), Burrough_110 (C1), Bxz1_108 (C1), Cactojaque_105 (C1), Cali_106 (C1), Cane17_100 (C1), Capablanca_112 (C1), Caravan_105 (C1), Catera_107 (C1), Chargie21_106 (C1), CharlieB_106 (C1), ChaylaJr_105 (C1), ChickenPhender_106 (C1), Chomp_109 (C1), CindyLou_111 (C1), Cleatunium_104 (C1), Colt_101 (C1), Concombre_116 (C1), DTDevon_111 (C1), Daffodil_115 (C1), Dandelion_116 (C1), Darko_110 (C1), DeejaClivia_98 (C1), Delilah_110 (C1), Delylah_113 (C1), Demodog_117 (C1), Derek_110 (C1), Dessert_110 (C1), Dietrick_102 (C1), DirtMonster_104 (C1), Domi_104 (C1), DrPhinkDaddy_109 (C1), Drazdys_109 (C1), Duckfeet_103 (C1), ET08_99 (C1), EasyJones_112 (C1), EggyFarm_118 (C1), EmToTheThree_112 (C1), EmmaElysia_110 (C1), Erdmann_111 (C1), ErnieJ_105 (C1), Essence_107 (C1), Ewok_111 (C1), Fixie_103 (C1), Flabslab_104 (C1), Fludd_110 (C1), Fongie_108 (C1), FoxtrotP1_110 (C1), FrayBell_115 (C1), FudgeTart_109 (C1), Gabriel_111 (C1), Gamgam_110 (C1), Ghost_109 (C1), Gizmo_114 (C1), GlutenPhree_111 (C1), GoldenSnow_114 (C1), Grasshills_117 (C1), Grungle_98 (C1), Guwapp_109 (C1), Halldule_104 (C1), HyRo_101 (C1), I3_115 (C1), IkeLoa_103 (C1), InigoMontoya_111 (C1), InterFolia_117 (C1), Iota_105 (C1), Issimir_109 (C1), Izajani_110 (C1), JPickles_108 (C1), Janiyra_112 (C1), JayJay_115 (C1), Jaygup_110 (C1), Jedediah_113 (C1), Jemmno_110 (C1), Jessibeth14_109 (C1), Jezreel_110 (C1), JigglyPuff_118 (C1), JulietS_104 (C1), JustHall_107 (C1), Kamryn_110 (C1), Kboogie_114 (C1), Khaleesi_109 (C1), Koguma_107 (C1), LRRHood_104 (C1), Labradorite_111 (C1), Latch_110 (C1), Lee7_113 (C1), Lethe_109 (C1), LifeSavor_109 (C1), LinStu_109 (C1), Littleton_110 (C1), Loanshark_109 (C1), LolaVinca_111 (C1), LookingGlass_111 (C1), LordLeafolot_115 (C1), Lukilu_101 (C1), Lunareta_109 (C1), Maby2021_110 (C1), Maguvora_115 (C1), Mangeria_110 (C1), Matsumoto_108 (C1), Maturis_108 (C1), McGee_112 (C1),

McWolfish_108 (C1), Megamind_109 (C1), Melpomini_104 (C1), MikeLiesIn_111 (C1), Mikro_108 (C1), MoMoMixon_111 (C1), Moby_101 (C1), Moiqah_101 (C1), Momo_109 (C1), Montpel_109 (C1), Morizzled23_110 (C1), Naija_109 (C1), Napoleon13_106 (C1), Nappy_113 (C1), Naval22_118 (C1), NedWong_111 (C1), Ngannou_106 (C1), Nidhogg_111 (C1), NoodleTree_117 (C1), Norm_111 (C1), NuevoMundo_116 (C1), OrediggerDelux_113 (C1), ParkTD_111 (C1), Patter_110 (C1), PharkleMinkus_113 (C1), Phlegm_112 (C1), Phox_107 (C1), Phusco_110 (C1), Pier_115 (C1), Pinkcreek_101 (C1), Pio_114 (C1), Pivoine_109 (C1), Pleione_113 (C1), Primadonna_104 (C1), Puhon_114 (C1), Pupusa_116 (C1), PurduePete_110 (C1), QBert_104 (C1), Quasimodo_111 (C1), Rabinovish_108 (C1), Rahel_109 (C1), Rizal_106 (C1), RoMag_105 (C1), Rocha_109 (C1), Ronan_104 (C1), Roots515_109 (C1), SVoro_108 (C1), Salacia_114 (C1), Sauce_110 (C1), ScottMcG_107 (C1), Sebata_111 (C1), Shaqnato_103 (C1), Shelob_112 (C1), ShiaLabeouf_109 (C1), Shifa_98 (C1), Shnickers_110 (C1), Shrimp_110 (C1), SilverDipper_111 (C1), SiwenD96_112 (C1), SmallFry_110 (C1), SoilZilla_106 (C1), Spec_107 (C1), Specks_115 (C1), Sprinklers_106 (C1), Spud_110 (C1), SrishMeg2525_109 (C1), StephanieG_109 (C1), StubbySaigey_113 (C1), Stubby_102 (C1), Substance289_108 (C1), Tainan_114 (C1), Teardrop_109 (C1), TinyTim_110 (C1), Tonenili_125 (C1), Tortoise16_107 (C1), Trinitium_107 (C1), Turret_105 (C1), Tyke_111 (C1), ValleyTerrace_110 (C1), Vortrix_124 (C1), Wally_109 (C1), Willis_111 (C1), Yassified_107 (C1), YemiJoy2021_111 (C1), YoungMoneyMata_111 (C1), Yucca_110 (C1), Zalkecks_111 (C1), Zeenon_112 (C1), ZygoTaiga_109 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:
•Start number 1 was manually annotated 192 times for cluster C1.

Gene Information:

Gene: Ablatia_109 Start: 56459, Stop: 56680, Start Num: 1
Candidate Starts for Ablatia_109:
(Start: 1 @56459 has 192 MA's), (2, 56477), (3, 56546), (4, 56564),

Gene: Ading_110 Start: 56843, Stop: 57064, Start Num: 1
Candidate Starts for Ading_110:
(Start: 1 @56843 has 192 MA's), (2, 56861), (3, 56930), (4, 56948),

Gene: Adlitam_110 Start: 56860, Stop: 57081, Start Num: 1
Candidate Starts for Adlitam_110:
(Start: 1 @56860 has 192 MA's), (2, 56878), (3, 56947), (4, 56965),

Gene: Alice_103 Start: 56137, Stop: 56358, Start Num: 1
Candidate Starts for Alice_103:
(Start: 1 @56137 has 192 MA's), (2, 56155), (3, 56224), (4, 56242),

Gene: Amataga_110 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Amataga_110:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: ArcherS7_109 Start: 56423, Stop: 56644, Start Num: 1
Candidate Starts for ArcherS7_109:
(Start: 1 @56423 has 192 MA's), (2, 56441), (3, 56510), (4, 56528),

Gene: Asterius_113 Start: 57098, Stop: 57319, Start Num: 1
Candidate Starts for Asterius_113:
(Start: 1 @57098 has 192 MA's), (2, 57116), (3, 57185), (4, 57203),

Gene: Astraea_107 Start: 55874, Stop: 56095, Start Num: 1
Candidate Starts for Astraea_107:
(Start: 1 @55874 has 192 MA's), (2, 55892), (3, 55961), (4, 55979),

Gene: Atlantean_109 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Atlantean_109:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Audrick_112 Start: 56084, Stop: 56305, Start Num: 1
Candidate Starts for Audrick_112:
(Start: 1 @56084 has 192 MA's), (2, 56102), (3, 56171), (4, 56189),

Gene: Ava3_111 Start: 57018, Stop: 57239, Start Num: 1
Candidate Starts for Ava3_111:
(Start: 1 @57018 has 192 MA's), (2, 57036), (3, 57105), (4, 57123),

Gene: Babyland_111 Start: 56193, Stop: 56414, Start Num: 1
Candidate Starts for Babyland_111:
(Start: 1 @56193 has 192 MA's), (2, 56211), (3, 56280), (4, 56298),

Gene: BackyardAgain_107 Start: 56020, Stop: 56241, Start Num: 1
Candidate Starts for BackyardAgain_107:
(Start: 1 @56020 has 192 MA's), (2, 56038), (3, 56107), (4, 56125),

Gene: BadAgartude_106 Start: 57309, Stop: 57530, Start Num: 1
Candidate Starts for BadAgartude_106:
(Start: 1 @57309 has 192 MA's), (2, 57327), (3, 57396), (4, 57414),

Gene: BananaFence_109 Start: 57274, Stop: 57495, Start Num: 1
Candidate Starts for BananaFence_109:
(Start: 1 @57274 has 192 MA's), (2, 57292), (3, 57361), (4, 57379),

Gene: Bangla1971_111 Start: 56553, Stop: 56774, Start Num: 1
Candidate Starts for Bangla1971_111:
(Start: 1 @56553 has 192 MA's), (2, 56571), (3, 56640), (4, 56658),

Gene: Basquiat_106 Start: 55736, Stop: 55957, Start Num: 1
Candidate Starts for Basquiat_106:
(Start: 1 @55736 has 192 MA's), (2, 55754), (3, 55823), (4, 55841),

Gene: BeanWater_102 Start: 56870, Stop: 57091, Start Num: 1
Candidate Starts for BeanWater_102:
(Start: 1 @56870 has 192 MA's), (2, 56888), (3, 56957), (4, 56975),

Gene: Belieber_106 Start: 56336, Stop: 56557, Start Num: 1
Candidate Starts for Belieber_106:
(Start: 1 @56336 has 192 MA's), (2, 56354), (3, 56423), (4, 56441),

Gene: Bezza_104 Start: 56301, Stop: 56522, Start Num: 1
Candidate Starts for Bezza_104:
(Start: 1 @56301 has 192 MA's), (2, 56319), (3, 56388), (4, 56406),

Gene: BigCity_118 Start: 59534, Stop: 59755, Start Num: 1
Candidate Starts for BigCity_118:
(Start: 1 @59534 has 192 MA's), (2, 59552), (3, 59621), (4, 59639),

Gene: Bigswole_114 Start: 58819, Stop: 59040, Start Num: 1
Candidate Starts for Bigswole_114:
(Start: 1 @58819 has 192 MA's), (2, 58837), (3, 58906), (4, 58924),

Gene: Bipolarisk_109 Start: 57276, Stop: 57497, Start Num: 1
Candidate Starts for Bipolarisk_109:
(Start: 1 @57276 has 192 MA's), (2, 57294), (3, 57363), (4, 57381),

Gene: Blackbrain_105 Start: 55567, Stop: 55788, Start Num: 1
Candidate Starts for Blackbrain_105:
(Start: 1 @55567 has 192 MA's), (2, 55585), (3, 55654), (4, 55672),

Gene: Blackdragon_106 Start: 56700, Stop: 56921, Start Num: 1
Candidate Starts for Blackdragon_106:
(Start: 1 @56700 has 192 MA's), (2, 56718), (3, 56787), (4, 56805),

Gene: Blubba_100 Start: 57307, Stop: 57528, Start Num: 1
Candidate Starts for Blubba_100:
(Start: 1 @57307 has 192 MA's), (2, 57325), (3, 57394), (4, 57412),

Gene: BobaPhatt_107 Start: 55626, Stop: 55847, Start Num: 1
Candidate Starts for BobaPhatt_107:
(Start: 1 @55626 has 192 MA's), (2, 55644), (3, 55713), (4, 55731),

Gene: Bonray_110 Start: 57449, Stop: 57670, Start Num: 1
Candidate Starts for Bonray_110:
(Start: 1 @57449 has 192 MA's), (2, 57467), (3, 57536), (4, 57554),

Gene: Bowman_112 Start: 57010, Stop: 57231, Start Num: 1
Candidate Starts for Bowman_112:
(Start: 1 @57010 has 192 MA's), (2, 57028), (3, 57097), (4, 57115),

Gene: Bread_110 Start: 57104, Stop: 57325, Start Num: 1
Candidate Starts for Bread_110:
(Start: 1 @57104 has 192 MA's), (2, 57122), (3, 57191), (4, 57209),

Gene: Breeniome_109 Start: 55452, Stop: 55673, Start Num: 1
Candidate Starts for Breeniome_109:
(Start: 1 @55452 has 192 MA's), (2, 55470), (3, 55539), (4, 55557),

Gene: Burrough_110 Start: 57603, Stop: 57824, Start Num: 1

Candidate Starts for Burrough_110:
(Start: 1 @57603 has 192 MA's), (2, 57621), (3, 57690), (4, 57708),

Gene: Bxz1_108 Start: 58807, Stop: 59028, Start Num: 1
Candidate Starts for Bxz1_108:
(Start: 1 @58807 has 192 MA's), (2, 58825), (3, 58894), (4, 58912),

Gene: Cactojaque_105 Start: 55674, Stop: 55895, Start Num: 1
Candidate Starts for Cactojaque_105:
(Start: 1 @55674 has 192 MA's), (2, 55692), (3, 55761), (4, 55779),

Gene: Cali_106 Start: 57605, Stop: 57826, Start Num: 1
Candidate Starts for Cali_106:
(Start: 1 @57605 has 192 MA's), (2, 57623), (3, 57692), (4, 57710),

Gene: Cane17_100 Start: 57365, Stop: 57586, Start Num: 1
Candidate Starts for Cane17_100:
(Start: 1 @57365 has 192 MA's), (2, 57383), (3, 57452), (4, 57470),

Gene: Capablanca_112 Start: 57855, Stop: 58076, Start Num: 1
Candidate Starts for Capablanca_112:
(Start: 1 @57855 has 192 MA's), (2, 57873), (3, 57942), (4, 57960),

Gene: Caravan_105 Start: 56962, Stop: 57183, Start Num: 1
Candidate Starts for Caravan_105:
(Start: 1 @56962 has 192 MA's), (2, 56980), (3, 57049), (4, 57067),

Gene: Catera_107 Start: 55878, Stop: 56099, Start Num: 1
Candidate Starts for Catera_107:
(Start: 1 @55878 has 192 MA's), (2, 55896), (3, 55965), (4, 55983),

Gene: Chargie21_106 Start: 55736, Stop: 55957, Start Num: 1
Candidate Starts for Chargie21_106:
(Start: 1 @55736 has 192 MA's), (2, 55754), (3, 55823), (4, 55841),

Gene: CharlieB_106 Start: 56007, Stop: 56228, Start Num: 1
Candidate Starts for CharlieB_106:
(Start: 1 @56007 has 192 MA's), (2, 56025), (3, 56094), (4, 56112),

Gene: ChaylaJr_105 Start: 55501, Stop: 55722, Start Num: 1
Candidate Starts for ChaylaJr_105:
(Start: 1 @55501 has 192 MA's), (2, 55519), (3, 55588), (4, 55606),

Gene: ChickenPhender_106 Start: 55804, Stop: 56025, Start Num: 1
Candidate Starts for ChickenPhender_106:
(Start: 1 @55804 has 192 MA's), (2, 55822), (3, 55891), (4, 55909),

Gene: Chomp_109 Start: 57393, Stop: 57614, Start Num: 1
Candidate Starts for Chomp_109:
(Start: 1 @57393 has 192 MA's), (2, 57411), (3, 57480), (4, 57498),

Gene: CindyLou_111 Start: 57434, Stop: 57655, Start Num: 1
Candidate Starts for CindyLou_111:

(Start: 1 @57434 has 192 MA's), (2, 57452), (3, 57521), (4, 57539),

Gene: Cleatunium_104 Start: 56091, Stop: 56312, Start Num: 1
Candidate Starts for Cleatunium_104:
(Start: 1 @56091 has 192 MA's), (2, 56109), (3, 56178), (4, 56196),

Gene: Colt_101 Start: 57961, Stop: 58182, Start Num: 1
Candidate Starts for Colt_101:
(Start: 1 @57961 has 192 MA's), (2, 57979), (3, 58048), (4, 58066),

Gene: Concombre_116 Start: 59765, Stop: 59986, Start Num: 1
Candidate Starts for Concombre_116:
(Start: 1 @59765 has 192 MA's), (2, 59783), (3, 59852), (4, 59870),

Gene: DTDevon_111 Start: 57645, Stop: 57866, Start Num: 1
Candidate Starts for DTDevon_111:
(Start: 1 @57645 has 192 MA's), (2, 57663), (3, 57732), (4, 57750),

Gene: Daffodil_115 Start: 57576, Stop: 57797, Start Num: 1
Candidate Starts for Daffodil_115:
(Start: 1 @57576 has 192 MA's), (2, 57594), (3, 57663), (4, 57681),

Gene: Dandelion_116 Start: 59757, Stop: 59978, Start Num: 1
Candidate Starts for Dandelion_116:
(Start: 1 @59757 has 192 MA's), (2, 59775), (3, 59844), (4, 59862),

Gene: Darko_110 Start: 57278, Stop: 57499, Start Num: 1
Candidate Starts for Darko_110:
(Start: 1 @57278 has 192 MA's), (2, 57296), (3, 57365), (4, 57383),

Gene: DeejaClivia_98 Start: 53933, Stop: 54154, Start Num: 1
Candidate Starts for DeejaClivia_98:
(Start: 1 @53933 has 192 MA's), (2, 53951), (3, 54020), (4, 54038),

Gene: Delilah_110 Start: 57730, Stop: 57951, Start Num: 1
Candidate Starts for Delilah_110:
(Start: 1 @57730 has 192 MA's), (2, 57748), (3, 57817), (4, 57835),

Gene: Delylah_113 Start: 57269, Stop: 57490, Start Num: 1
Candidate Starts for Delylah_113:
(Start: 1 @57269 has 192 MA's), (2, 57287), (3, 57356), (4, 57374),

Gene: Demodog_117 Start: 59775, Stop: 59996, Start Num: 1
Candidate Starts for Demodog_117:
(Start: 1 @59775 has 192 MA's), (2, 59793), (3, 59862), (4, 59880),

Gene: Derek_110 Start: 57195, Stop: 57416, Start Num: 1
Candidate Starts for Derek_110:
(Start: 1 @57195 has 192 MA's), (2, 57213), (3, 57282), (4, 57300),

Gene: Dessert_110 Start: 55671, Stop: 55892, Start Num: 1
Candidate Starts for Dessert_110:
(Start: 1 @55671 has 192 MA's), (2, 55689), (3, 55758), (4, 55776),

Gene: Dietrick_102 Start: 55271, Stop: 55492, Start Num: 1
Candidate Starts for Dietrick_102:
(Start: 1 @55271 has 192 MA's), (2, 55289), (3, 55358), (4, 55376),

Gene: DirtMonster_104 Start: 56529, Stop: 56750, Start Num: 1
Candidate Starts for DirtMonster_104:
(Start: 1 @56529 has 192 MA's), (2, 56547), (3, 56616), (4, 56634),

Gene: Domi_104 Start: 56617, Stop: 56838, Start Num: 1
Candidate Starts for Domi_104:
(Start: 1 @56617 has 192 MA's), (2, 56635), (3, 56704), (4, 56722),

Gene: DrPhinkDaddy_109 Start: 57798, Stop: 58019, Start Num: 1
Candidate Starts for DrPhinkDaddy_109:
(Start: 1 @57798 has 192 MA's), (2, 57816), (3, 57885), (4, 57903),

Gene: Drazdys_109 Start: 56259, Stop: 56480, Start Num: 1
Candidate Starts for Drazdys_109:
(Start: 1 @56259 has 192 MA's), (2, 56277), (3, 56346), (4, 56364),

Gene: Duckfeet_103 Start: 55720, Stop: 55941, Start Num: 1
Candidate Starts for Duckfeet_103:
(Start: 1 @55720 has 192 MA's), (2, 55738), (3, 55807), (4, 55825),

Gene: ET08_99 Start: 56259, Stop: 56480, Start Num: 1
Candidate Starts for ET08_99:
(Start: 1 @56259 has 192 MA's), (2, 56277), (3, 56346), (4, 56364),

Gene: EasyJones_112 Start: 56400, Stop: 56621, Start Num: 1
Candidate Starts for EasyJones_112:
(Start: 1 @56400 has 192 MA's), (2, 56418), (3, 56487), (4, 56505),

Gene: EggyFarm_118 Start: 59534, Stop: 59755, Start Num: 1
Candidate Starts for EggyFarm_118:
(Start: 1 @59534 has 192 MA's), (2, 59552), (3, 59621), (4, 59639),

Gene: EmToTheThree_112 Start: 58537, Stop: 58758, Start Num: 1
Candidate Starts for EmToTheThree_112:
(Start: 1 @58537 has 192 MA's), (2, 58555), (3, 58624), (4, 58642),

Gene: EmmaElysia_110 Start: 56324, Stop: 56545, Start Num: 1
Candidate Starts for EmmaElysia_110:
(Start: 1 @56324 has 192 MA's), (2, 56342), (3, 56411), (4, 56429),

Gene: Erdmann_111 Start: 57577, Stop: 57798, Start Num: 1
Candidate Starts for Erdmann_111:
(Start: 1 @57577 has 192 MA's), (2, 57595), (3, 57664), (4, 57682),

Gene: ErnieJ_105 Start: 55531, Stop: 55752, Start Num: 1
Candidate Starts for ErnieJ_105:
(Start: 1 @55531 has 192 MA's), (2, 55549), (3, 55618), (4, 55636),

Gene: Essence_107 Start: 56425, Stop: 56646, Start Num: 1
Candidate Starts for Essence_107:
(Start: 1 @56425 has 192 MA's), (2, 56443), (3, 56512), (4, 56530),

Gene: Ewok_111 Start: 56964, Stop: 57185, Start Num: 1
Candidate Starts for Ewok_111:
(Start: 1 @56964 has 192 MA's), (2, 56982), (3, 57051), (4, 57069),

Gene: Fixie_103 Start: 56217, Stop: 56438, Start Num: 1
Candidate Starts for Fixie_103:
(Start: 1 @56217 has 192 MA's), (2, 56235), (3, 56304), (4, 56322),

Gene: Flabslab_104 Start: 54656, Stop: 54877, Start Num: 1
Candidate Starts for Flabslab_104:
(Start: 1 @54656 has 192 MA's), (2, 54674), (3, 54743), (4, 54761),

Gene: Fludd_110 Start: 56171, Stop: 56392, Start Num: 1
Candidate Starts for Fludd_110:
(Start: 1 @56171 has 192 MA's), (2, 56189), (3, 56258), (4, 56276),

Gene: Fongie_108 Start: 57177, Stop: 57398, Start Num: 1
Candidate Starts for Fongie_108:
(Start: 1 @57177 has 192 MA's), (2, 57195), (3, 57264), (4, 57282),

Gene: FoxtrotP1_110 Start: 58747, Stop: 58968, Start Num: 1
Candidate Starts for FoxtrotP1_110:
(Start: 1 @58747 has 192 MA's), (2, 58765), (3, 58834), (4, 58852),

Gene: FrayBell_115 Start: 57911, Stop: 58132, Start Num: 1
Candidate Starts for FrayBell_115:
(Start: 1 @57911 has 192 MA's), (2, 57929), (3, 57998), (4, 58016),

Gene: FudgeTart_109 Start: 56605, Stop: 56826, Start Num: 1
Candidate Starts for FudgeTart_109:
(Start: 1 @56605 has 192 MA's), (2, 56623), (3, 56692), (4, 56710),

Gene: Gabriel_111 Start: 55831, Stop: 56052, Start Num: 1
Candidate Starts for Gabriel_111:
(Start: 1 @55831 has 192 MA's), (2, 55849), (3, 55918), (4, 55936),

Gene: Gamgam_110 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Gamgam_110:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Ghost_109 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Ghost_109:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Gizmo_114 Start: 58727, Stop: 58948, Start Num: 1
Candidate Starts for Gizmo_114:
(Start: 1 @58727 has 192 MA's), (2, 58745), (3, 58814), (4, 58832),

Gene: GlutenPhree_111 Start: 56105, Stop: 56326, Start Num: 1

Candidate Starts for GlutenPhree_111:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: GoldenSnow_114 Start: 57910, Stop: 58131, Start Num: 1
Candidate Starts for GoldenSnow_114:
(Start: 1 @57910 has 192 MA's), (2, 57928), (3, 57997), (4, 58015),

Gene: Grasshills_117 Start: 59534, Stop: 59755, Start Num: 1
Candidate Starts for Grasshills_117:
(Start: 1 @59534 has 192 MA's), (2, 59552), (3, 59621), (4, 59639),

Gene: Grungle_98 Start: 53848, Stop: 54069, Start Num: 1
Candidate Starts for Grungle_98:
(Start: 1 @53848 has 192 MA's), (2, 53866), (3, 53935), (4, 53953),

Gene: Guwapp_109 Start: 55996, Stop: 56217, Start Num: 1
Candidate Starts for Guwapp_109:
(Start: 1 @55996 has 192 MA's), (2, 56014), (3, 56083), (4, 56101),

Gene: Halldule_104 Start: 54874, Stop: 55095, Start Num: 1
Candidate Starts for Halldule_104:
(Start: 1 @54874 has 192 MA's), (2, 54892), (3, 54961), (4, 54979),

Gene: HyRo_101 Start: 56101, Stop: 56322, Start Num: 1
Candidate Starts for HyRo_101:
(Start: 1 @56101 has 192 MA's), (2, 56119), (3, 56188), (4, 56206),

Gene: I3_115 Start: 58062, Stop: 58283, Start Num: 1
Candidate Starts for I3_115:
(Start: 1 @58062 has 192 MA's), (2, 58080), (3, 58149), (4, 58167),

Gene: IkeLoa_103 Start: 55931, Stop: 56152, Start Num: 1
Candidate Starts for IkeLoa_103:
(Start: 1 @55931 has 192 MA's), (2, 55949), (3, 56018), (4, 56036),

Gene: InigoMontoya_111 Start: 56066, Stop: 56287, Start Num: 1
Candidate Starts for InigoMontoya_111:
(Start: 1 @56066 has 192 MA's), (2, 56084), (3, 56153), (4, 56171),

Gene: InterFolia_117 Start: 58847, Stop: 59068, Start Num: 1
Candidate Starts for InterFolia_117:
(Start: 1 @58847 has 192 MA's), (2, 58865), (3, 58934), (4, 58952),

Gene: Iota_105 Start: 56542, Stop: 56763, Start Num: 1
Candidate Starts for Iota_105:
(Start: 1 @56542 has 192 MA's), (2, 56560), (3, 56629), (4, 56647),

Gene: Issimir_109 Start: 57551, Stop: 57772, Start Num: 1
Candidate Starts for Issimir_109:
(Start: 1 @57551 has 192 MA's), (2, 57569), (3, 57638), (4, 57656),

Gene: Izajani_110 Start: 57757, Stop: 57978, Start Num: 1
Candidate Starts for Izajani_110:

(Start: 1 @57757 has 192 MA's), (2, 57775), (3, 57844), (4, 57862),

Gene: JPickles_108 Start: 55336, Stop: 55557, Start Num: 1
Candidate Starts for JPickles_108:
(Start: 1 @55336 has 192 MA's), (2, 55354), (3, 55423), (4, 55441),

Gene: Janiyra_112 Start: 57032, Stop: 57253, Start Num: 1
Candidate Starts for Janiyra_112:
(Start: 1 @57032 has 192 MA's), (2, 57050), (3, 57119), (4, 57137),

Gene: JayJay_115 Start: 58541, Stop: 58762, Start Num: 1
Candidate Starts for JayJay_115:
(Start: 1 @58541 has 192 MA's), (2, 58559), (3, 58628), (4, 58646),

Gene: Jaygup_110 Start: 56861, Stop: 57082, Start Num: 1
Candidate Starts for Jaygup_110:
(Start: 1 @56861 has 192 MA's), (2, 56879), (3, 56948), (4, 56966),

Gene: Jedediah_113 Start: 57394, Stop: 57615, Start Num: 1
Candidate Starts for Jedediah_113:
(Start: 1 @57394 has 192 MA's), (2, 57412), (3, 57481), (4, 57499),

Gene: Jemmno_110 Start: 56841, Stop: 57062, Start Num: 1
Candidate Starts for Jemmno_110:
(Start: 1 @56841 has 192 MA's), (2, 56859), (3, 56928), (4, 56946),

Gene: Jessibeth14_109 Start: 57362, Stop: 57583, Start Num: 1
Candidate Starts for Jessibeth14_109:
(Start: 1 @57362 has 192 MA's), (2, 57380), (3, 57449), (4, 57467),

Gene: Jezreel_110 Start: 57525, Stop: 57746, Start Num: 1
Candidate Starts for Jezreel_110:
(Start: 1 @57525 has 192 MA's), (2, 57543), (3, 57612), (4, 57630),

Gene: JigglyPuff_118 Start: 59691, Stop: 59912, Start Num: 1
Candidate Starts for JigglyPuff_118:
(Start: 1 @59691 has 192 MA's), (2, 59709), (3, 59778), (4, 59796),

Gene: JulietS_104 Start: 54727, Stop: 54948, Start Num: 1
Candidate Starts for JulietS_104:
(Start: 1 @54727 has 192 MA's), (2, 54745), (3, 54814), (4, 54832),

Gene: JustHall_107 Start: 56900, Stop: 57121, Start Num: 1
Candidate Starts for JustHall_107:
(Start: 1 @56900 has 192 MA's), (2, 56918), (3, 56987), (4, 57005),

Gene: Kamryn_110 Start: 58177, Stop: 58398, Start Num: 1
Candidate Starts for Kamryn_110:
(Start: 1 @58177 has 192 MA's), (2, 58195), (3, 58264), (4, 58282),

Gene: Kboogie_114 Start: 56533, Stop: 56754, Start Num: 1
Candidate Starts for Kboogie_114:
(Start: 1 @56533 has 192 MA's), (2, 56551), (3, 56620), (4, 56638),

Gene: Khaleesi_109 Start: 57476, Stop: 57697, Start Num: 1
Candidate Starts for Khaleesi_109:
(Start: 1 @57476 has 192 MA's), (2, 57494), (3, 57563), (4, 57581),

Gene: Koguma_107 Start: 55021, Stop: 55242, Start Num: 1
Candidate Starts for Koguma_107:
(Start: 1 @55021 has 192 MA's), (2, 55039), (3, 55108), (4, 55126),

Gene: LRRHood_104 Start: 56819, Stop: 57040, Start Num: 1
Candidate Starts for LRRHood_104:
(Start: 1 @56819 has 192 MA's), (2, 56837), (3, 56906), (4, 56924),

Gene: Labradorite_111 Start: 55558, Stop: 55779, Start Num: 1
Candidate Starts for Labradorite_111:
(Start: 1 @55558 has 192 MA's), (2, 55576), (3, 55645), (4, 55663),

Gene: Latch_110 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Latch_110:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Lee7_113 Start: 58110, Stop: 58331, Start Num: 1
Candidate Starts for Lee7_113:
(Start: 1 @58110 has 192 MA's), (2, 58128), (3, 58197), (4, 58215),

Gene: Lethe_109 Start: 57548, Stop: 57769, Start Num: 1
Candidate Starts for Lethe_109:
(Start: 1 @57548 has 192 MA's), (2, 57566), (3, 57635), (4, 57653),

Gene: LifeSavor_109 Start: 56793, Stop: 57014, Start Num: 1
Candidate Starts for LifeSavor_109:
(Start: 1 @56793 has 192 MA's), (2, 56811), (3, 56880), (4, 56898),

Gene: LinStu_109 Start: 57427, Stop: 57648, Start Num: 1
Candidate Starts for LinStu_109:
(Start: 1 @57427 has 192 MA's), (2, 57445), (3, 57514), (4, 57532),

Gene: Littleton_110 Start: 56922, Stop: 57143, Start Num: 1
Candidate Starts for Littleton_110:
(Start: 1 @56922 has 192 MA's), (2, 56940), (3, 57009), (4, 57027),

Gene: Loanshark_109 Start: 57444, Stop: 57665, Start Num: 1
Candidate Starts for Loanshark_109:
(Start: 1 @57444 has 192 MA's), (2, 57462), (3, 57531), (4, 57549),

Gene: LolaVinca_111 Start: 57796, Stop: 58017, Start Num: 1
Candidate Starts for LolaVinca_111:
(Start: 1 @57796 has 192 MA's), (2, 57814), (3, 57883), (4, 57901),

Gene: LookingGlass_111 Start: 57620, Stop: 57841, Start Num: 1
Candidate Starts for LookingGlass_111:
(Start: 1 @57620 has 192 MA's), (2, 57638), (3, 57707), (4, 57725),

Gene: LordLeafolot_115 Start: 58763, Stop: 58984, Start Num: 1
Candidate Starts for LordLeafolot_115:
(Start: 1 @58763 has 192 MA's), (2, 58781), (3, 58850), (4, 58868),

Gene: Lukilu_101 Start: 57209, Stop: 57430, Start Num: 1
Candidate Starts for Lukilu_101:
(Start: 1 @57209 has 192 MA's), (2, 57227), (3, 57296), (4, 57314),

Gene: Lunareta_109 Start: 58716, Stop: 58937, Start Num: 1
Candidate Starts for Lunareta_109:
(Start: 1 @58716 has 192 MA's), (2, 58734), (3, 58803), (4, 58821),

Gene: Maby2021_110 Start: 57570, Stop: 57791, Start Num: 1
Candidate Starts for Maby2021_110:
(Start: 1 @57570 has 192 MA's), (2, 57588), (3, 57657), (4, 57675),

Gene: Maguvora_115 Start: 58150, Stop: 58371, Start Num: 1
Candidate Starts for Maguvora_115:
(Start: 1 @58150 has 192 MA's), (2, 58168), (3, 58237), (4, 58255),

Gene: Mangeria_110 Start: 57639, Stop: 57860, Start Num: 1
Candidate Starts for Mangeria_110:
(Start: 1 @57639 has 192 MA's), (2, 57657), (3, 57726), (4, 57744),

Gene: Matsumoto_108 Start: 56421, Stop: 56642, Start Num: 1
Candidate Starts for Matsumoto_108:
(Start: 1 @56421 has 192 MA's), (2, 56439), (3, 56508), (4, 56526),

Gene: Maturis_108 Start: 57212, Stop: 57433, Start Num: 1
Candidate Starts for Maturis_108:
(Start: 1 @57212 has 192 MA's), (2, 57230), (3, 57299), (4, 57317),

Gene: McGee_112 Start: 56174, Stop: 56395, Start Num: 1
Candidate Starts for McGee_112:
(Start: 1 @56174 has 192 MA's), (2, 56192), (3, 56261), (4, 56279),

Gene: McWolfish_108 Start: 57359, Stop: 57580, Start Num: 1
Candidate Starts for McWolfish_108:
(Start: 1 @57359 has 192 MA's), (2, 57377), (3, 57446), (4, 57464),

Gene: Megamind_109 Start: 57243, Stop: 57464, Start Num: 1
Candidate Starts for Megamind_109:
(Start: 1 @57243 has 192 MA's), (2, 57261), (3, 57330), (4, 57348),

Gene: Melpomini_104 Start: 54709, Stop: 54930, Start Num: 1
Candidate Starts for Melpomini_104:
(Start: 1 @54709 has 192 MA's), (2, 54727), (3, 54796), (4, 54814),

Gene: MikeLiesIn_111 Start: 57590, Stop: 57811, Start Num: 1
Candidate Starts for MikeLiesIn_111:
(Start: 1 @57590 has 192 MA's), (2, 57608), (3, 57677), (4, 57695),

Gene: Mikro_108 Start: 58812, Stop: 59033, Start Num: 1

Candidate Starts for Mikro_108:
(Start: 1 @58812 has 192 MA's), (2, 58830), (3, 58899), (4, 58917),

Gene: MoMoMixon_111 Start: 57066, Stop: 57287, Start Num: 1
Candidate Starts for MoMoMixon_111:
(Start: 1 @57066 has 192 MA's), (2, 57084), (3, 57153), (4, 57171),

Gene: Moby_101 Start: 53978, Stop: 54199, Start Num: 1
Candidate Starts for Moby_101:
(Start: 1 @53978 has 192 MA's), (2, 53996), (3, 54065), (4, 54083),

Gene: Moiqah_101 Start: 53978, Stop: 54199, Start Num: 1
Candidate Starts for Moiqah_101:
(Start: 1 @53978 has 192 MA's), (2, 53996), (3, 54065), (4, 54083),

Gene: Momo_109 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Momo_109:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Montpel_109 Start: 58714, Stop: 58935, Start Num: 1
Candidate Starts for Montpel_109:
(Start: 1 @58714 has 192 MA's), (2, 58732), (3, 58801), (4, 58819),

Gene: Morizzled23_110 Start: 56470, Stop: 56691, Start Num: 1
Candidate Starts for Morizzled23_110:
(Start: 1 @56470 has 192 MA's), (2, 56488), (3, 56557), (4, 56575),

Gene: Naija_109 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Naija_109:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Napoleon13_106 Start: 55147, Stop: 55368, Start Num: 1
Candidate Starts for Napoleon13_106:
(Start: 1 @55147 has 192 MA's), (2, 55165), (3, 55234), (4, 55252),

Gene: Nappy_113 Start: 58500, Stop: 58721, Start Num: 1
Candidate Starts for Nappy_113:
(Start: 1 @58500 has 192 MA's), (2, 58518), (3, 58587), (4, 58605),

Gene: Naval22_118 Start: 59033, Stop: 59254, Start Num: 1
Candidate Starts for Naval22_118:
(Start: 1 @59033 has 192 MA's), (2, 59051), (3, 59120), (4, 59138),

Gene: NedWong_111 Start: 57577, Stop: 57798, Start Num: 1
Candidate Starts for NedWong_111:
(Start: 1 @57577 has 192 MA's), (2, 57595), (3, 57664), (4, 57682),

Gene: Ngannou_106 Start: 55087, Stop: 55308, Start Num: 1
Candidate Starts for Ngannou_106:
(Start: 1 @55087 has 192 MA's), (2, 55105), (3, 55174), (4, 55192),

Gene: Nidhogg_111 Start: 57311, Stop: 57532, Start Num: 1
Candidate Starts for Nidhogg_111:

(Start: 1 @57311 has 192 MA's), (2, 57329), (3, 57398), (4, 57416),

Gene: NoodleTree_117 Start: 57669, Stop: 57890, Start Num: 1
Candidate Starts for NoodleTree_117:
(Start: 1 @57669 has 192 MA's), (2, 57687), (3, 57756), (4, 57774),

Gene: Norm_111 Start: 58272, Stop: 58493, Start Num: 1
Candidate Starts for Norm_111:
(Start: 1 @58272 has 192 MA's), (2, 58290), (3, 58359), (4, 58377),

Gene: NuevoMundo_116 Start: 59851, Stop: 60072, Start Num: 1
Candidate Starts for NuevoMundo_116:
(Start: 1 @59851 has 192 MA's), (2, 59869), (3, 59938), (4, 59956),

Gene: OrediggerDelux_113 Start: 58107, Stop: 58328, Start Num: 1
Candidate Starts for OrediggerDelux_113:
(Start: 1 @58107 has 192 MA's), (2, 58125), (3, 58194), (4, 58212),

Gene: ParkTD_111 Start: 57573, Stop: 57794, Start Num: 1
Candidate Starts for ParkTD_111:
(Start: 1 @57573 has 192 MA's), (2, 57591), (3, 57660), (4, 57678),

Gene: Patter_110 Start: 56122, Stop: 56343, Start Num: 1
Candidate Starts for Patter_110:
(Start: 1 @56122 has 192 MA's), (2, 56140), (3, 56209), (4, 56227),

Gene: PharkleMinkus_113 Start: 57911, Stop: 58132, Start Num: 1
Candidate Starts for PharkleMinkus_113:
(Start: 1 @57911 has 192 MA's), (2, 57929), (3, 57998), (4, 58016),

Gene: Phlegm_112 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Phlegm_112:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Phox_107 Start: 57853, Stop: 58074, Start Num: 1
Candidate Starts for Phox_107:
(Start: 1 @57853 has 192 MA's), (2, 57871), (3, 57940), (4, 57958),

Gene: Phusco_110 Start: 56870, Stop: 57091, Start Num: 1
Candidate Starts for Phusco_110:
(Start: 1 @56870 has 192 MA's), (2, 56888), (3, 56957), (4, 56975),

Gene: Pier_115 Start: 59859, Stop: 60080, Start Num: 1
Candidate Starts for Pier_115:
(Start: 1 @59859 has 192 MA's), (2, 59877), (3, 59946), (4, 59964),

Gene: Pinkcreek_101 Start: 55193, Stop: 55414, Start Num: 1
Candidate Starts for Pinkcreek_101:
(Start: 1 @55193 has 192 MA's), (2, 55211), (3, 55280), (4, 55298),

Gene: Pio_114 Start: 59463, Stop: 59684, Start Num: 1
Candidate Starts for Pio_114:
(Start: 1 @59463 has 192 MA's), (2, 59481), (3, 59550), (4, 59568),

Gene: Pivoine_109 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Pivoine_109:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Pleione_113 Start: 57740, Stop: 57961, Start Num: 1
Candidate Starts for Pleione_113:
(Start: 1 @57740 has 192 MA's), (2, 57758), (3, 57827), (4, 57845),

Gene: Primadonna_104 Start: 56235, Stop: 56456, Start Num: 1
Candidate Starts for Primadonna_104:
(Start: 1 @56235 has 192 MA's), (2, 56253), (3, 56322), (4, 56340),

Gene: Puhon_114 Start: 58098, Stop: 58319, Start Num: 1
Candidate Starts for Puhon_114:
(Start: 1 @58098 has 192 MA's), (2, 58116), (3, 58185), (4, 58203),

Gene: Pupusa_116 Start: 58952, Stop: 59173, Start Num: 1
Candidate Starts for Pupusa_116:
(Start: 1 @58952 has 192 MA's), (2, 58970), (3, 59039), (4, 59057),

Gene: PurduePete_110 Start: 57997, Stop: 58218, Start Num: 1
Candidate Starts for PurduePete_110:
(Start: 1 @57997 has 192 MA's), (2, 58015), (3, 58084), (4, 58102),

Gene: QBert_104 Start: 56576, Stop: 56797, Start Num: 1
Candidate Starts for QBert_104:
(Start: 1 @56576 has 192 MA's), (2, 56594), (3, 56663), (4, 56681),

Gene: Quasimodo_111 Start: 57532, Stop: 57753, Start Num: 1
Candidate Starts for Quasimodo_111:
(Start: 1 @57532 has 192 MA's), (2, 57550), (3, 57619), (4, 57637),

Gene: Rabinovish_108 Start: 57769, Stop: 57990, Start Num: 1
Candidate Starts for Rabinovish_108:
(Start: 1 @57769 has 192 MA's), (2, 57787), (3, 57856), (4, 57874),

Gene: Rahel_109 Start: 56462, Stop: 56683, Start Num: 1
Candidate Starts for Rahel_109:
(Start: 1 @56462 has 192 MA's), (2, 56480), (3, 56549), (4, 56567),

Gene: Rizal_106 Start: 55610, Stop: 55831, Start Num: 1
Candidate Starts for Rizal_106:
(Start: 1 @55610 has 192 MA's), (2, 55628), (3, 55697), (4, 55715),

Gene: RoMag_105 Start: 56782, Stop: 57003, Start Num: 1
Candidate Starts for RoMag_105:
(Start: 1 @56782 has 192 MA's), (2, 56800), (3, 56869), (4, 56887),

Gene: Rocha_109 Start: 57035, Stop: 57256, Start Num: 1
Candidate Starts for Rocha_109:
(Start: 1 @57035 has 192 MA's), (2, 57053), (3, 57122), (4, 57140),

Gene: Ronan_104 Start: 54733, Stop: 54954, Start Num: 1
Candidate Starts for Ronan_104:
(Start: 1 @54733 has 192 MA's), (2, 54751), (3, 54820), (4, 54838),

Gene: Roots515_109 Start: 57770, Stop: 57991, Start Num: 1
Candidate Starts for Roots515_109:
(Start: 1 @57770 has 192 MA's), (2, 57788), (3, 57857), (4, 57875),

Gene: SVoro_108 Start: 57947, Stop: 58168, Start Num: 1
Candidate Starts for SVoro_108:
(Start: 1 @57947 has 192 MA's), (2, 57965), (3, 58034), (4, 58052),

Gene: Salacia_114 Start: 57911, Stop: 58132, Start Num: 1
Candidate Starts for Salacia_114:
(Start: 1 @57911 has 192 MA's), (2, 57929), (3, 57998), (4, 58016),

Gene: Sauce_110 Start: 56517, Stop: 56738, Start Num: 1
Candidate Starts for Sauce_110:
(Start: 1 @56517 has 192 MA's), (2, 56535), (3, 56604), (4, 56622),

Gene: ScottMcG_107 Start: 56532, Stop: 56753, Start Num: 1
Candidate Starts for ScottMcG_107:
(Start: 1 @56532 has 192 MA's), (2, 56550), (3, 56619), (4, 56637),

Gene: Sebata_111 Start: 57986, Stop: 58207, Start Num: 1
Candidate Starts for Sebata_111:
(Start: 1 @57986 has 192 MA's), (2, 58004), (3, 58073), (4, 58091),

Gene: Shaqnato_103 Start: 55576, Stop: 55797, Start Num: 1
Candidate Starts for Shaqnato_103:
(Start: 1 @55576 has 192 MA's), (2, 55594), (3, 55663), (4, 55681),

Gene: Shelob_112 Start: 58358, Stop: 58579, Start Num: 1
Candidate Starts for Shelob_112:
(Start: 1 @58358 has 192 MA's), (2, 58376), (3, 58445), (4, 58463),

Gene: ShiaLabeouf_109 Start: 56897, Stop: 57118, Start Num: 1
Candidate Starts for ShiaLabeouf_109:
(Start: 1 @56897 has 192 MA's), (2, 56915), (3, 56984), (4, 57002),

Gene: Shifa_98 Start: 55367, Stop: 55588, Start Num: 1
Candidate Starts for Shifa_98:
(Start: 1 @55367 has 192 MA's), (2, 55385), (3, 55454), (4, 55472),

Gene: Shnickers_110 Start: 56861, Stop: 57082, Start Num: 1
Candidate Starts for Shnickers_110:
(Start: 1 @56861 has 192 MA's), (2, 56879), (3, 56948), (4, 56966),

Gene: Shrimp_110 Start: 57581, Stop: 57802, Start Num: 1
Candidate Starts for Shrimp_110:
(Start: 1 @57581 has 192 MA's), (2, 57599), (3, 57668), (4, 57686),

Gene: SilverDipper_111 Start: 56105, Stop: 56326, Start Num: 1

Candidate Starts for SilverDipper_111:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: SiwenD96_112 Start: 58038, Stop: 58259, Start Num: 1
Candidate Starts for SiwenD96_112:
(Start: 1 @58038 has 192 MA's), (2, 58056), (3, 58125), (4, 58143),

Gene: SmallFry_110 Start: 56086, Stop: 56307, Start Num: 1
Candidate Starts for SmallFry_110:
(Start: 1 @56086 has 192 MA's), (2, 56104), (3, 56173), (4, 56191),

Gene: SoilZilla_106 Start: 56860, Stop: 57081, Start Num: 1
Candidate Starts for SoilZilla_106:
(Start: 1 @56860 has 192 MA's), (2, 56878), (3, 56947), (4, 56965),

Gene: Spec_107 Start: 56626, Stop: 56847, Start Num: 1
Candidate Starts for Spec_107:
(Start: 1 @56626 has 192 MA's), (2, 56644), (3, 56713), (4, 56731),

Gene: Specks_115 Start: 58760, Stop: 58981, Start Num: 1
Candidate Starts for Specks_115:
(Start: 1 @58760 has 192 MA's), (2, 58778), (3, 58847), (4, 58865),

Gene: Sprinklers_106 Start: 56142, Stop: 56363, Start Num: 1
Candidate Starts for Sprinklers_106:
(Start: 1 @56142 has 192 MA's), (2, 56160), (3, 56229), (4, 56247),

Gene: Spud_110 Start: 57657, Stop: 57878, Start Num: 1
Candidate Starts for Spud_110:
(Start: 1 @57657 has 192 MA's), (2, 57675), (3, 57744), (4, 57762),

Gene: SrishMeg2525_109 Start: 57679, Stop: 57900, Start Num: 1
Candidate Starts for SrishMeg2525_109:
(Start: 1 @57679 has 192 MA's), (2, 57697), (3, 57766), (4, 57784),

Gene: StephanieG_109 Start: 58487, Stop: 58708, Start Num: 1
Candidate Starts for StephanieG_109:
(Start: 1 @58487 has 192 MA's), (2, 58505), (3, 58574), (4, 58592),

Gene: Stubby_102 Start: 55683, Stop: 55904, Start Num: 1
Candidate Starts for Stubby_102:
(Start: 1 @55683 has 192 MA's), (2, 55701), (3, 55770), (4, 55788),

Gene: StubbySaigey_113 Start: 56274, Stop: 56495, Start Num: 1
Candidate Starts for StubbySaigey_113:
(Start: 1 @56274 has 192 MA's), (2, 56292), (3, 56361), (4, 56379),

Gene: Substance289_108 Start: 56379, Stop: 56600, Start Num: 1
Candidate Starts for Substance289_108:
(Start: 1 @56379 has 192 MA's), (2, 56397), (3, 56466), (4, 56484),

Gene: Tainan_114 Start: 58083, Stop: 58304, Start Num: 1
Candidate Starts for Tainan_114:

(Start: 1 @58083 has 192 MA's), (2, 58101), (3, 58170), (4, 58188),

Gene: Teardrop_109 Start: 56084, Stop: 56305, Start Num: 1
Candidate Starts for Teardrop_109:
(Start: 1 @56084 has 192 MA's), (2, 56102), (3, 56171), (4, 56189),

Gene: TinyTim_110 Start: 57337, Stop: 57558, Start Num: 1
Candidate Starts for TinyTim_110:
(Start: 1 @57337 has 192 MA's), (2, 57355), (3, 57424), (4, 57442),

Gene: Tonenili_125 Start: 60800, Stop: 61021, Start Num: 1
Candidate Starts for Tonenili_125:
(Start: 1 @60800 has 192 MA's), (2, 60818), (3, 60887), (5, 60971),

Gene: Tortoise16_107 Start: 56685, Stop: 56906, Start Num: 1
Candidate Starts for Tortoise16_107:
(Start: 1 @56685 has 192 MA's), (2, 56703), (3, 56772), (4, 56790),

Gene: Trinitium_107 Start: 56040, Stop: 56261, Start Num: 1
Candidate Starts for Trinitium_107:
(Start: 1 @56040 has 192 MA's), (2, 56058), (3, 56127), (4, 56145),

Gene: Turret_105 Start: 55485, Stop: 55706, Start Num: 1
Candidate Starts for Turret_105:
(Start: 1 @55485 has 192 MA's), (2, 55503), (3, 55572), (4, 55590),

Gene: Tyke_111 Start: 57992, Stop: 58213, Start Num: 1
Candidate Starts for Tyke_111:
(Start: 1 @57992 has 192 MA's), (2, 58010), (3, 58079), (4, 58097),

Gene: ValleyTerrace_110 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for ValleyTerrace_110:
(Start: 1 @56105 has 192 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Vortrix_124 Start: 60116, Stop: 60337, Start Num: 1
Candidate Starts for Vortrix_124:
(Start: 1 @60116 has 192 MA's), (2, 60134), (3, 60203), (5, 60287),

Gene: Wally_109 Start: 56115, Stop: 56336, Start Num: 1
Candidate Starts for Wally_109:
(Start: 1 @56115 has 192 MA's), (2, 56133), (3, 56202), (4, 56220),

Gene: Willis_111 Start: 57472, Stop: 57693, Start Num: 1
Candidate Starts for Willis_111:
(Start: 1 @57472 has 192 MA's), (2, 57490), (3, 57559), (4, 57577),

Gene: Yassified_107 Start: 56192, Stop: 56413, Start Num: 1
Candidate Starts for Yassified_107:
(Start: 1 @56192 has 192 MA's), (2, 56210), (3, 56279), (4, 56297),

Gene: YemiJoy2021_111 Start: 57574, Stop: 57795, Start Num: 1
Candidate Starts for YemiJoy2021_111:
(Start: 1 @57574 has 192 MA's), (2, 57592), (3, 57661), (4, 57679),

Gene: YoungMoneyMata_111 Start: 56741, Stop: 56962, Start Num: 1
Candidate Starts for YoungMoneyMata_111:
(Start: 1 @56741 has 192 MA's), (2, 56759), (3, 56828), (4, 56846),

Gene: Yucca_110 Start: 57256, Stop: 57477, Start Num: 1
Candidate Starts for Yucca_110:
(Start: 1 @57256 has 192 MA's), (2, 57274), (3, 57343), (4, 57361),

Gene: Zalkecks_111 Start: 57257, Stop: 57478, Start Num: 1
Candidate Starts for Zalkecks_111:
(Start: 1 @57257 has 192 MA's), (2, 57275), (3, 57344), (4, 57362),

Gene: Zeenon_112 Start: 57342, Stop: 57563, Start Num: 1
Candidate Starts for Zeenon_112:
(Start: 1 @57342 has 192 MA's), (2, 57360), (3, 57429), (4, 57447),

Gene: ZygoTaiga_109 Start: 58502, Stop: 58723, Start Num: 1
Candidate Starts for ZygoTaiga_109:
(Start: 1 @58502 has 192 MA's), (2, 58520), (3, 58589), (4, 58607),