



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 212319 Report

This analysis was run 02/22/25 on database version 588.

Pham number 212319 has 197 members, 25 are drafts.

Phages represented in each track:

- Track 1 : I3_115, Ghost_109, GlutenPhree_109, Teardrop_109, Caravan_105, Essence_107, BadAgartude_106, Bipolarisk_109, LordLeafolot_114, Colt_101, BeanWater_102, Naval22_115, Chargie21_106, Cactojaque_105, Gamgam_110, Naija_109, LRRHood_104, JigglyPuff_118, Ablatia_108, Drazdys_109, Jezreel_108, Fongie_108, Delylah_113, ShiaLabeouf_109, Rizal_106, Khaleesi_109, CindyLou_111, ArcherS7_109, Spud_110, ValleyTerrace_110, NedWong_111, EasyJones_112, JayJay_115, IkeLoa_103, Delilah_110, Ewok_111, DTDevon_111, Melpomini_104, Koguma_107, Grasshills_117, CharlieB_106, Kboogie_114, ErnieJ_105, SrishMeg2525_109, Loanshark_109, ChaylaJr_105, Shelob_112, Jessibeth14_109, Blackdragon_106, Sebata_111, Atlantean_109, Bigswole_114, Erdmann_111, Yassified_107, Derek_110, ParkTD_111, Astraea_107, Jaygup_110, Roots515_109, FoxtrotP1_110, EggyFarm_118, Spec_106, Quasimodo_111, LolaVinca_111, ET08_99, Mikro_108, Gizmo_114, Tainan_114, Issimir_109, BackyardAgain_107, Wally_109, Mangeria_110, Blubba_100, Rahel_109, StephanieG_109, Shrimp_110, Ading_110, Trinitium_107, HyRo_101, Phlegm_112, Cali_106, Pier_115, Dietrick_102, Amataga_110, Maby2021_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, Bonray_110, DirtMonster_104, Cane17_100, MikeLiesIn_111, Jemmno_110, Stubby_102, Zeenon_112, Flabslab_104, Megamind_109, BananaFence_109, Adlitam_110, Sauce_110, JustHall_107, McGee_112, YoungMoneyMata_111, DrPhinkDaddy_109, SmallFry_110, Shifa_98, RoMag_105, Latch_110, Grungle_98, Bread_110, Shnickers_110, Pinkcreek_101, Ngannou_106, Tortoise16_107, DeejaClivia_98, StubbySaigey_113, Specks_115, Chomp_109, Audrick_112, Morizzled23_110, Lethe_110, InigoMontoya_111, Ava3_111, Kamryn_110, JulietS_105, Norm_111, Belieber_106, Janiyra_112, Turret_105, NoodleTree_117, Salacia_114, EmmaElysia_110, Ronan_104, FrayBell_115, Phusco_110, Fludd_110, Blackbrain_105, Jedediah_113, SVoro_108, Primadonna_104, Phox_107, Lee7_108, Zalkecks_111, NuevoMundo_116, Nidhogg_111, Littleton_110, Guwapp_109, McWolfish_108, Lukilu_101, Tyke_111, BigCity_118, EmToTheThree_112, Halldule_104, FudgeTart_109, Iota_105, Dandelion_116, Yucca_110, LifeSavor_109, Gabriel_111, Domi_104, Bxz1_108, Asterius_113, PurduePete_110, Matsumoto_107, Bangla1971_111, Demodog_117, Willis_111, Pio_114, Shaqnato_103, Capablanca_112, Pivoine_109, JPickles_108, Darko_110, Pleione_113, SilverDipper_111, Izajani_110, LinStu_109, Nappy_113, Alice_103, Concombre_116, Babyland_111, Daffodil_115, Patter_110

- Track 2 : 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 172 of the 172 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia_108, 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, BigCity_118, Bigswole_114, Bipolarisk_109, Blackbrain_105, Blackdragon_106, Blubba_100, Bonray_110, Bread_110, Breeniome_109, Burrough_110, Bxz1_108, Cactojaque_105, Cali_106, Cane17_100, Capablanca_112, Caravan_105, Catera_107, Charge21_106, CharlieB_106, ChaylaJr_105, ChickenPhender_106, Chomp_109, CindyLou_111, Colt_101, Concombre_116, DTDevon_111, Daffodil_115, Dandelion_116, Darko_110, DeejaClivia_98, Delilah_110, Delylah_113, Demodog_117, Derek_110, Dietrick_102, DirtMonster_104, Domi_104, DrPhinkDaddy_109, Drazdys_109, ET08_99, EasyJones_112, EggyFarm_118, EmToTheThree_112, EmmaElysia_110, Erdmann_111, ErnieJ_105, Essence_107, Ewok_111, Flabslab_104, Fludd_110, Fongie_108, FoxtrotP1_110, FrayBell_115, FudgeTart_109, Gabriel_111, Gangam_110, Ghost_109, Gizmo_114, GlutenPhree_109, 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, Jediah_113, Jemmno_110, Jessibeth14_109, Jezreel_108, JigglyPuff_118, JulietS_105, JustHall_107, Kamryn_110, Kboogie_114, Khaleesi_109, Koguma_107, LRRHood_104, Latch_110, Lee7_108, Lethe_110, LifeSavor_109, LinStu_109, Littleton_110, Loanshark_109, LolaVinca_111, LordLeafolot_114, Lukilu_101, Maby2021_110, Mangeria_110, Matsumoto_107, McGee_112, McWolfish_108, Megamind_109, Melpomini_104, MikeLiesIn_111, Mikro_108, MoMoMixon_111, Momo_109, Morizzled23_110, Naija_109, Napoleon13_106, Nappy_113, Naval22_115, NedWong_111, Ngannou_106, Nidhogg_111, NoodleTree_117, Norm_111, NuevoMundo_116, ParkTD_111, Patter_110, Phlegm_112, Phox_107, Phusco_110, Pier_115, Pinkcreek_101, Pio_114, Pivoine_109, Pleione_113, Primadonna_104, PurduePete_110, QBert_104, Quasimodo_111, Rabinovish_108, Rahel_109, Rizal_106, RoMag_105, 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, SmallFry_110, Spec_106, Specks_115, Sprinklers_106, Spud_110, SrishMeg2525_109, StephanieG_109, StubbySaigey_113, Stubby_102, Tainan_114, Teardrop_109, TinyTim_110, Tonenili_125, Tortoise16_107, Trinitium_107, Turret_105, Tyke_111, ValleyTerrace_110, 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 197 of 197 (100.0%) of genes in pham
- Manual Annotations of this start: 172 of 172
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ablatia_108 (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), BigCity_118 (C1), Bigswole_114 (C1), Bipolarisk_109 (C1), Blackbrain_105 (C1), Blackdragon_106 (C1), Blubba_100 (C1), Bonray_110 (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), 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), Dietrick_102 (C1), DirtMonster_104 (C1), Domi_104 (C1), DrPhinkDaddy_109 (C1), Drazdys_109 (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), 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_109 (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), Janiyr_112 (C1), JayJay_115 (C1), Jaygup_110 (C1), Jedediah_113 (C1), Jemmno_110 (C1), Jessibeth14_109 (C1), Jezreel_108 (C1), JigglyPuff_118 (C1), JulietS_105 (C1), JustHall_107 (C1), Kamryn_110 (C1), Kboogie_114 (C1), Khaleesi_109 (C1), Koguma_107 (C1), LRRHood_104 (C1), Latch_110 (C1), Lee7_108 (C1), Lethe_110 (C1), LifeSavor_109 (C1), LinStu_109 (C1), Littleton_110 (C1), Loanshark_109 (C1), LolaVinca_111 (C1), LordLeafolot_114 (C1), Lukilu_101 (C1), Maby2021_110 (C1), Mangeria_110 (C1), Matsumoto_107 (C1), McGee_112 (C1), McWolfish_108 (C1), Megamind_109 (C1), Melpomini_104 (C1), MikeLiesIn_111 (C1), Mikro_108 (C1), MoMoMixon_111 (C1), Momo_109 (C1), Morizzled23_110 (C1), Naija_109 (C1), Napoleon13_106 (C1), Nappy_113 (C1), Naval22_115 (C1), NedWong_111 (C1), Ngannou_106 (C1), Nidhogg_111 (C1), NoodleTree_117 (C1), Norm_111 (C1), NuevoMundo_116 (C1), ParkTD_111 (C1), Patter_110 (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), PurduePete_110 (C1), QBert_104 (C1), Quasimodo_111 (C1), Rabinovish_108 (C1), Rahel_109 (C1), Rizal_106 (C1), RoMag_105 (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), SmallFry_110 (C1), Spec_106 (C1), Specks_115 (C1), Sprinklers_106 (C1), Spud_110 (C1),

SrishMeg2525_109 (C1), StephanieG_109 (C1), StubbySaigey_113 (C1), Stubby_102 (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), 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 172 times for cluster C1.

Gene Information:

Gene: Ablatia_108 Start: 56459, Stop: 56680, Start Num: 1

Candidate Starts for Ablatia_108:

(Start: 1 @56459 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 56354), (3, 56423), (4, 56441),

Gene: BigCity_118 Start: 59534, Stop: 59755, Start Num: 1
Candidate Starts for BigCity_118:
(Start: 1 @59534 has 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 57325), (3, 57394), (4, 57412),

Gene: Bonray_110 Start: 57449, Stop: 57670, Start Num: 1
Candidate Starts for Bonray_110:
(Start: 1 @57449 has 172 MA's), (2, 57467), (3, 57536), (4, 57554),

Gene: Bread_110 Start: 57104, Stop: 57325, Start Num: 1
Candidate Starts for Bread_110:
(Start: 1 @57104 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 57452), (3, 57521), (4, 57539),

Gene: Colt_101 Start: 57961, Stop: 58182, Start Num: 1

Candidate Starts for Colt_101:

(Start: 1 @57961 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 57213), (3, 57282), (4, 57300),

Gene: Dietrick_102 Start: 55271, Stop: 55492, Start Num: 1

Candidate Starts for Dietrick_102:

(Start: 1 @55271 has 172 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 172 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 172 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 172 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 172 MA's), (2, 56277), (3, 56346), (4, 56364),

Gene: ET08_99 Start: 56259, Stop: 56480, Start Num: 1

Candidate Starts for ET08_99:

(Start: 1 @56259 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 56982), (3, 57051), (4, 57069),

Gene: Flabslab_104 Start: 54656, Stop: 54877, Start Num: 1
Candidate Starts for Flabslab_104:
(Start: 1 @54656 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 58745), (3, 58814), (4, 58832),

Gene: GlutenPhree_109 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for GlutenPhree_109:
(Start: 1 @56105 has 172 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Grasshills_117 Start: 59534, Stop: 59755, Start Num: 1
Candidate Starts for Grasshills_117:
(Start: 1 @59534 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 57380), (3, 57449), (4, 57467),

Gene: Jezreel_108 Start: 57525, Stop: 57746, Start Num: 1
Candidate Starts for Jezreel_108:
(Start: 1 @57525 has 172 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 172 MA's), (2, 59709), (3, 59778), (4, 59796),

Gene: JulietS_105 Start: 54727, Stop: 54948, Start Num: 1
Candidate Starts for JulietS_105:
(Start: 1 @54727 has 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 56837), (3, 56906), (4, 56924),

Gene: Latch_110 Start: 56105, Stop: 56326, Start Num: 1

Candidate Starts for Latch_110:

(Start: 1 @56105 has 172 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Lee7_108 Start: 58110, Stop: 58331, Start Num: 1

Candidate Starts for Lee7_108:

(Start: 1 @58110 has 172 MA's), (2, 58128), (3, 58197), (4, 58215),

Gene: Lethe_110 Start: 57548, Stop: 57769, Start Num: 1

Candidate Starts for Lethe_110:

(Start: 1 @57548 has 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 57814), (3, 57883), (4, 57901),

Gene: LordLeafolot_114 Start: 58763, Stop: 58984, Start Num: 1

Candidate Starts for LordLeafolot_114:

(Start: 1 @58763 has 172 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 172 MA's), (2, 57227), (3, 57296), (4, 57314),

Gene: Maby2021_110 Start: 57570, Stop: 57791, Start Num: 1
Candidate Starts for Maby2021_110:
(Start: 1 @57570 has 172 MA's), (2, 57588), (3, 57657), (4, 57675),

Gene: Mangeria_110 Start: 57639, Stop: 57860, Start Num: 1
Candidate Starts for Mangeria_110:
(Start: 1 @57639 has 172 MA's), (2, 57657), (3, 57726), (4, 57744),

Gene: Matsumoto_107 Start: 56421, Stop: 56642, Start Num: 1
Candidate Starts for Matsumoto_107:
(Start: 1 @56421 has 172 MA's), (2, 56439), (3, 56508), (4, 56526),

Gene: McGee_112 Start: 56174, Stop: 56395, Start Num: 1
Candidate Starts for McGee_112:
(Start: 1 @56174 has 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 57084), (3, 57153), (4, 57171),

Gene: Momo_109 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Momo_109:
(Start: 1 @56105 has 172 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Morizzled23_110 Start: 56470, Stop: 56691, Start Num: 1
Candidate Starts for Morizzled23_110:
(Start: 1 @56470 has 172 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 172 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 172 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 172 MA's), (2, 58518), (3, 58587), (4, 58605),

Gene: Naval22_115 Start: 59033, Stop: 59254, Start Num: 1
Candidate Starts for Naval22_115:
(Start: 1 @59033 has 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 59869), (3, 59938), (4, 59956),

Gene: ParkTD_111 Start: 57573, Stop: 57794, Start Num: 1
Candidate Starts for ParkTD_111:
(Start: 1 @57573 has 172 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 172 MA's), (2, 56140), (3, 56209), (4, 56227),

Gene: Phlegm_112 Start: 56105, Stop: 56326, Start Num: 1
Candidate Starts for Phlegm_112:
(Start: 1 @56105 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 56253), (3, 56322), (4, 56340),

Gene: PurduePete_110 Start: 57997, Stop: 58218, Start Num: 1

Candidate Starts for PurduePete_110:

(Start: 1 @57997 has 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 56800), (3, 56869), (4, 56887),

Gene: Ronan_104 Start: 54733, Stop: 54954, Start Num: 1

Candidate Starts for Ronan_104:

(Start: 1 @54733 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: SmallFry_110 Start: 56086, Stop: 56307, Start Num: 1
Candidate Starts for SmallFry_110:
(Start: 1 @56086 has 172 MA's), (2, 56104), (3, 56173), (4, 56191),

Gene: Spec_106 Start: 56626, Stop: 56847, Start Num: 1
Candidate Starts for Spec_106:
(Start: 1 @56626 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 56292), (3, 56361), (4, 56379),

Gene: Tainan_114 Start: 58083, Stop: 58304, Start Num: 1
Candidate Starts for Tainan_114:
(Start: 1 @58083 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 56123), (3, 56192), (4, 56210),

Gene: Wally_109 Start: 56115, Stop: 56336, Start Num: 1
Candidate Starts for Wally_109:
(Start: 1 @56115 has 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 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 172 MA's), (2, 58520), (3, 58589), (4, 58607),