Pham 290866

1: Vortrix_118 + 178

2: BeanWater_96 + 12

3: Pupper_100 + 2

4: Skog_163

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 290866 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290866 has 196 members, 33 are drafts.

Phages represented in each track:
• Track 1 : Vortrix_118, Roots515_103, GlutenPhree_105, BackyardAgain_101, Colt_95, Labradorite_103, Gamgam_104, JPickles_102, CharlieB_100, YemiJoy2021_105, Maby2021_104, Substance289_102, Atlantean_103, Naija_103, Izajani_104, Phox_101, Rizal_100, CindyLou_105, Delylah_107, Lethe_103, NedWong_105, Patter_104, ArcherS7_103, Primadonna_98, Delilah_104, BananaFence_103, Naval22_109, Belieber_100, Yassified_101, ValleyTerrace_104, Cleatunium_98, ChaylaJr_99, DTDevon_105, Ewok_105, BadAgartude_100, LifeSavor_103, Ngannou_100, Teardrop_103, Fixie_101, Khaleesi_103, Phusco_104, Shelob_106, Tainan_108, Megamind_103, Derek_104, Issimir_103, Erdmann_105, Essence_101, Caravan_99, Cali_100, Quasimodo_105, Napoleon13_100, Melpomini_98, Grasshills_111, Kboogie_108, ScottMcG_101, Bowman_101, Lunareta_103, LolaVinca_105, ShiaLabeouf_103, Jezreel_104, Montpel_103, Catera_101, Ghost_103, Blubba_94, ChickenPhender_100, Mangeria_104, Bigswole_109, Ading_104, Shrimp_104, Pupusa_110, Dietrick_96, Blackdragon_100, Phlegm_106, Amataga_104, EggyFarm_112, DrPhinkDaddy_103, TinyTim_104, MoMoMixon_105, Ablatia_103, OrediggerDelux_102, Gizmo_108, JustHall_101, Burrough_104, Specks_109, Blackbrain_99, Flabslab_98, Bonray_104, Trinitium_101, Jemmno_104, MikeLiesIn_105, Cane17_94, Pier_109, Zeenon_106, Sprinklers_100, Capablanca_106, YoungMoneyMata_105, Asterius_107, Jaygup_104, FrayBell_109, McGee_106, Wally_103, SmallFry_104, Shnickers_104, Rahel_103, Bread_104, Latch_104, Tonenili_119, Pivoine_103, Spud_104, Ava3_105, LordLeafolot_109, InigoMontoya_105, Morizzled23_104, StubbySaigey_107, BigCity_112, Janiyra_106, Kamryn_104, BobaPhatt_100, Nappy_107, Momo_103, Adlitam_104, Jessibeth14_103, Turret_99, ParkTD_105, QBert_98, NoodleTree_111, EmmaElysia_104, Jedediah_107, ZygoTaiga_103, Spec_100, Bipolarisk_103, Iota_99, Astraea_101, Zalkecks_105, McWolfish_102, Tortoise16_101, Tyke_105, Lukilu_95, Nidhogg_105, Littleton_104, Bezza_93, Duckfeet_97, Maturis_102, PurduePete_104, Matsumoto_102, Cactojaque_99, Salacia_108, Gabriel_105, Bangla1971_105, Guwapp_103, Babyland_105, Daffodil_109, Chomp_103, DirtMonster_98, Mikro_102, Fongie_102, FoxtrotP1_104, Willis_105, Dessert_101, Pio_108, Drazdys_103, NuevoMundo_110, Koguma_101, Darko_104, Rabinovish_102, Bxz1_102, Yucca_104, InterFolia_112, SrishMeg2525_103, SilverDipper_105, PharkleMinkus_108, Pleione_107, Audrick_106, Norm_105, JigglyPuff_112, Lee7_102, SVoro_102, Breeniome_103
• Track 2 : BeanWater_96, RoMag_99, Domi_98, Halldule_98, StephanieG_103, ET08_93, Ronan_98, JulietS_98, Rocha_103, Shaqnato_97, Grungle_92, LookingGlass_105, Demodog_111

• Track 3 : Pupper_100, SCentae_99, CherryTomatoes_100
• Track 4 : Skog_163

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

The start number called the most often in the published annotations is 2, it was called in 159 of the 163 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_103, Ading_104, Adlitam_104, Amataga_104, ArcherS7_103, Asterius_107, Astraea_101, Atlantean_103, Audrick_106, Ava3_105, Babyland_105, BackyardAgain_101, BadAgartude_100, BananaFence_103, Bangla1971_105, BeanWater_96, Belieber_100, Bezza_93, BigCity_112, Bigswole_109, Bipolarisk_103, Blackbrain_99, Blackdragon_100, Blubba_94, BobaPhatt_100, Bonray_104, Bowman_101, Bread_104, Breeniome_103, Burrough_104, Bxz1_102, Cactojaque_99, Cali_100, Cane17_94, Capablanca_106, Caravan_99, Catera_101, CharlieB_100, ChaylaJr_99, ChickenPhender_100, Chomp_103, CindyLou_105, Cleatunium_98, Colt_95, DTDevon_105, Daffodil_109, Darko_104, Delilah_104, Delylah_107, Demodog_111, Derek_104, Dessert_101, Dietrick_96, DirtMonster_98, Domi_98, DrPhinkDaddy_103, Drazdys_103, Duckfeet_97, ET08_93, EggyFarm_112, EmmaElysia_104, Erdmann_105, Essence_101, Ewok_105, Fixie_101, Flabslab_98, Fongie_102, FoxtrotP1_104, FrayBell_109, Gabriel_105, Gamgam_104, Ghost_103, Gizmo_108, GlutenPhree_105, Grasshills_111, Grungle_92, Guwapp_103, Halldule_98, InigoMontoya_105, InterFolia_112, Iota_99, Issimir_103, Izajani_104, JPickles_102, Janiyra_106, Jaygup_104, Jedediah_107, Jemmno_104, Jessibeth14_103, Jezreel_104, JigglyPuff_112, JulietS_98, JustHall_101, Kamryn_104, Kboogie_108, Khaleesi_103, Koguma_101, Labradorite_103, Latch_104, Lee7_102, Lethe_103, LifeSavor_103, Littleton_104, LolaVinca_105, LookingGlass_105, LordLeafolot_109, Lukilu_95, Lunareta_103, Maby2021_104, Mangeria_104, Matsumoto_102, Maturis_102, McGee_106, McWolfish_102, Megamind_103, Melpomini_98, MikeLiesIn_105, Mikro_102, MoMoMixon_105, Momo_103, Montpel_103, Morizzled23_104, Naija_103, Napoleon13_100, Nappy_107, Naval22_109, NedWong_105, Ngannou_100, Nidhogg_105, NoodleTree_111, Norm_105, NuevoMundo_110, OrediggerDelux_102, ParkTD_105, Patter_104, PharkleMinkus_108, Phlegm_106, Phox_101, Phusco_104, Pier_109, Pio_108, Pivoine_103, Pleione_107, Primadonna_98, Pupusa_110, PurduePete_104, QBert_98, Quasimodo_105, Rabinovish_102, Rahel_103, Rizal_100, RoMag_99, Rocha_103, Ronan_98, Roots515_103, SVoro_102, Salacia_108, ScottMcG_101, Shaqnato_97, Shelob_106, ShiaLabeouf_103, Shnickers_104, Shrimp_104, SilverDipper_105, SmallFry_104, Spec_100, Specks_109, Sprinklers_100, Spud_104, SrishMeg2525_103, StephanieG_103, StubbySaigey_107, Substance289_102, Tainan_108, Teardrop_103, TinyTim_104, Tonenili_119, Tortoise16_101, Trinitium_101, Turret_99, Tyke_105, ValleyTerrace_104, Vortrix_118, Wally_103, Willis_105, Yassified_101, YemiJoy2021_105, YoungMoneyMata_105, Yucca_104, Zalkecks_105, Zeenon_106, ZygoTaiga_103,

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

Genes that do not have the "Most Annotated" start:
• CherryTomatoes_100, Pupper_100, SCentae_99, Skog_163,

Summary by start number:

Start 1:
• Found in 4 of 196 (2.0%) of genes in pham
• Manual Annotations of this start: 4 of 163
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_100 (DO), Pupper_100 (DO), SCentae_99 (DO), Skog_163 (DO),

Start 2:
• Found in 192 of 196 (98.0%) of genes in pham
• Manual Annotations of this start: 159 of 163
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ablatia_103 (C1), Ading_104 (C1), Adlitam_104 (C1), Amataga_104 (C1), ArcherS7_103 (C1), Asterius_107 (C1), Astraea_101 (C1), Atlantean_103 (C1), Audrick_106 (C1), Ava3_105 (C1), Babyland_105 (C1), BackyardAgain_101 (C1), BadAgartude_100 (C1), BananaFence_103 (C1), Bangla1971_105 (C1), BeanWater_96 (C1), Belieber_100 (C1), Bezza_93 (C1), BigCity_112 (C1), Bigswole_109 (C1), Bipolarisk_103 (C1), Blackbrain_99 (C1), Blackdragon_100 (C1), Blubba_94 (C1), BobaPhatt_100 (C1), Bonray_104 (C1), Bowman_101 (C1), Bread_104 (C1), Breeniome_103 (C1), Burrough_104 (C1), Bxz1_102 (C1), Cactojaque_99 (C1), Cali_100 (C1), Cane17_94 (C1), Capablanca_106 (C1), Caravan_99 (C1), Catera_101 (C1), CharlieB_100 (C1), ChaylaJr_99 (C1), ChickenPhender_100 (C1), Chomp_103 (C1), CindyLou_105 (C1), Cleatunium_98 (C1), Colt_95 (C1), DTDevon_105 (C1), Daffodil_109 (C1), Darko_104 (C1), Delilah_104 (C1), Delylah_107 (C1), Demodog_111 (C1), Derek_104 (C1), Dessert_101 (C1), Dietrick_96 (C1), DirtMonster_98 (C1), Domi_98 (C1), DrPhinkDaddy_103 (C1), Drazdys_103 (C1), Duckfeet_97 (C1), ET08_93 (C1), EggyFarm_112 (C1), EmmaElysia_104 (C1), Erdmann_105 (C1), Essence_101 (C1), Ewok_105 (C1), Fixie_101 (C1), Flabslab_98 (C1), Fongie_102 (C1), FoxtrotP1_104 (C1), FrayBell_109 (C1), Gabriel_105 (C1), Gamgam_104 (C1), Ghost_103 (C1), Gizmo_108 (C1), GlutenPhree_105 (C1), Grasshills_111 (C1), Grungle_92 (C1), Guwapp_103 (C1), Halldule_98 (C1), InigoMontoya_105 (C1), InterFolia_112 (C1), Iota_99 (C1), Issimir_103 (C1), Izajani_104 (C1), JPickles_102 (C1), Janiyra_106 (C1), Jaygup_104 (C1), Jedediah_107 (C1), Jemmno_104 (C1), Jessibeth14_103 (C1), Jezreel_104 (C1), JigglyPuff_112 (C1), JulietS_98 (C1), JustHall_101 (C1), Kamryn_104 (C1), Kboogie_108 (C1), Khaleesi_103 (C1), Koguma_101 (C1), Labradorite_103 (C1), Latch_104 (C1), Lee7_102 (C1), Lethe_103 (C1), LifeSavor_103 (C1), Littleton_104 (C1), LolaVinca_105 (C1), LookingGlass_105 (C1), LordLeafolot_109 (C1), Lukilu_95 (C1), Lunareta_103 (C1), Maby2021_104 (C1), Mangeria_104 (C1), Matsumoto_102 (C1), Maturis_102 (C1), McGee_106 (C1), McWolfish_102 (C1), Megamind_103 (C1), Melpomini_98 (C1), MikeLiesIn_105 (C1), Mikro_102 (C1), MoMoMixon_105 (C1), Momo_103 (C1), Montpel_103 (C1), Morizzled23_104 (C1), Naija_103 (C1), Napoleon13_100 (C1), Nappy_107 (C1), Naval22_109 (C1), NedWong_105 (C1), Ngannou_100 (C1), Nidhogg_105 (C1), NoodleTree_111 (C1), Norm_105 (C1), NuevoMundo_110 (C1), OrediggerDelux_102 (C1), ParkTD_105 (C1), Patter_104 (C1), PharkleMinkus_108 (C1), Phlegm_106 (C1), Phox_101 (C1), Phusco_104 (C1), Pier_109 (C1), Pio_108 (C1), Pivoine_103 (C1), Pleione_107 (C1), Primadonna_98 (C1), Pupusa_110 (C1), PurduePete_104 (C1), QBert_98 (C1), Quasimodo_105 (C1), Rabinovish_102 (C1), Rahel_103 (C1),

Rizal_100 (C1), RoMag_99 (C1), Rocha_103 (C1), Ronan_98 (C1), Roots515_103 (C1), SVoro_102 (C1), Salacia_108 (C1), ScottMcG_101 (C1), Shaqnato_97 (C1), Shelob_106 (C1), ShiaLabeouf_103 (C1), Shnickers_104 (C1), Shrimp_104 (C1), SilverDipper_105 (C1), SmallFry_104 (C1), Spec_100 (C1), Specks_109 (C1), Sprinklers_100 (C1), Spud_104 (C1), SrishMeg2525_103 (C1), StephanieG_103 (C1), StubbySaigey_107 (C1), Substance289_102 (C1), Tainan_108 (C1), Teardrop_103 (C1), TinyTim_104 (C1), Tonenili_119 (C1), Tortoise16_101 (C1), Trinitium_101 (C1), Turret_99 (C1), Tyke_105 (C1), ValleyTerrace_104 (C1), Vortrix_118 (C1), Wally_103 (C1), Willis_105 (C1), Yassified_101 (C1), YemiJoy2021_105 (C1), YoungMoneyMata_105 (C1), Yucca_104 (C1), Zalkecks_105 (C1), Zeenon_106 (C1), ZygoTaiga_103 (C1),

Summary by clusters:

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

Info for manual annotations of cluster C1:
•Start number 2 was manually annotated 159 times for cluster C1.

Info for manual annotations of cluster DO:
•Start number 1 was manually annotated 4 times for cluster DO.

Gene Information:

Gene: Ablatia_103 Start: 52252, Stop: 52416, Start Num: 2
Candidate Starts for Ablatia_103:
(Start: 2 @52252 has 159 MA's), (3, 52282), (4, 52309),

Gene: Ading_104 Start: 52636, Stop: 52800, Start Num: 2
Candidate Starts for Ading_104:
(Start: 2 @52636 has 159 MA's), (3, 52666), (4, 52693),

Gene: Adlitam_104 Start: 52653, Stop: 52817, Start Num: 2
Candidate Starts for Adlitam_104:
(Start: 2 @52653 has 159 MA's), (3, 52683), (4, 52710),

Gene: Amataga_104 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for Amataga_104:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: ArcherS7_103 Start: 52216, Stop: 52380, Start Num: 2
Candidate Starts for ArcherS7_103:
(Start: 2 @52216 has 159 MA's), (3, 52246), (4, 52273),

Gene: Asterius_107 Start: 52891, Stop: 53055, Start Num: 2
Candidate Starts for Asterius_107:
(Start: 2 @52891 has 159 MA's), (3, 52921), (4, 52948),

Gene: Astraea_101 Start: 51667, Stop: 51831, Start Num: 2
Candidate Starts for Astraea_101:
(Start: 2 @51667 has 159 MA's), (3, 51697), (4, 51724),

Gene: Atlantean_103 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for Atlantean_103:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Audrick_106 Start: 51877, Stop: 52041, Start Num: 2
Candidate Starts for Audrick_106:
(Start: 2 @51877 has 159 MA's), (3, 51907), (4, 51934),

Gene: Ava3_105 Start: 52811, Stop: 52975, Start Num: 2
Candidate Starts for Ava3_105:
(Start: 2 @52811 has 159 MA's), (3, 52841), (4, 52868),

Gene: Babyland_105 Start: 51986, Stop: 52150, Start Num: 2
Candidate Starts for Babyland_105:
(Start: 2 @51986 has 159 MA's), (3, 52016), (4, 52043),

Gene: BackyardAgain_101 Start: 51813, Stop: 51977, Start Num: 2
Candidate Starts for BackyardAgain_101:
(Start: 2 @51813 has 159 MA's), (3, 51843), (4, 51870),

Gene: BadAgartude_100 Start: 53336, Stop: 53500, Start Num: 2
Candidate Starts for BadAgartude_100:
(Start: 2 @53336 has 159 MA's), (3, 53366), (4, 53393),

Gene: BananaFence_103 Start: 53067, Stop: 53231, Start Num: 2
Candidate Starts for BananaFence_103:
(Start: 2 @53067 has 159 MA's), (3, 53097), (4, 53124),

Gene: Bangla1971_105 Start: 52346, Stop: 52510, Start Num: 2
Candidate Starts for Bangla1971_105:
(Start: 2 @52346 has 159 MA's), (3, 52376), (4, 52403),

Gene: BeanWater_96 Start: 52663, Stop: 52827, Start Num: 2
Candidate Starts for BeanWater_96:
(Start: 2 @52663 has 159 MA's), (3, 52693),

Gene: Belieber_100 Start: 52129, Stop: 52293, Start Num: 2
Candidate Starts for Belieber_100:
(Start: 2 @52129 has 159 MA's), (3, 52159), (4, 52186),

Gene: Bezza_93 Start: 52094, Stop: 52258, Start Num: 2
Candidate Starts for Bezza_93:
(Start: 2 @52094 has 159 MA's), (3, 52124), (4, 52151),

Gene: BigCity_112 Start: 55327, Stop: 55491, Start Num: 2
Candidate Starts for BigCity_112:
(Start: 2 @55327 has 159 MA's), (3, 55357), (4, 55384),

Gene: Bigswole_109 Start: 55856, Stop: 56020, Start Num: 2
Candidate Starts for Bigswole_109:
(Start: 2 @55856 has 159 MA's), (3, 55886), (4, 55913),

Gene: Bipolarisk_103 Start: 53069, Stop: 53233, Start Num: 2
Candidate Starts for Bipolarisk_103:
(Start: 2 @53069 has 159 MA's), (3, 53099), (4, 53126),

Gene: Blackbrain_99 Start: 51360, Stop: 51524, Start Num: 2
Candidate Starts for Blackbrain_99:
(Start: 2 @51360 has 159 MA's), (3, 51390), (4, 51417),

Gene: Blackdragon_100 Start: 52493, Stop: 52657, Start Num: 2
Candidate Starts for Blackdragon_100:
(Start: 2 @52493 has 159 MA's), (3, 52523), (4, 52550),

Gene: Blubba_94 Start: 53103, Stop: 53267, Start Num: 2
Candidate Starts for Blubba_94:
(Start: 2 @53103 has 159 MA's), (3, 53133), (4, 53160),

Gene: BobaPhatt_100 Start: 51419, Stop: 51583, Start Num: 2
Candidate Starts for BobaPhatt_100:
(Start: 2 @51419 has 159 MA's), (3, 51449), (4, 51476),

Gene: Bonray_104 Start: 53242, Stop: 53406, Start Num: 2
Candidate Starts for Bonray_104:
(Start: 2 @53242 has 159 MA's), (3, 53272), (4, 53299),

Gene: Bowman_101 Start: 52803, Stop: 52967, Start Num: 2
Candidate Starts for Bowman_101:
(Start: 2 @52803 has 159 MA's), (3, 52833), (4, 52860),

Gene: Bread_104 Start: 52897, Stop: 53061, Start Num: 2
Candidate Starts for Bread_104:
(Start: 2 @52897 has 159 MA's), (3, 52927), (4, 52954),

Gene: Breeniome_103 Start: 51479, Stop: 51643, Start Num: 2
Candidate Starts for Breeniome_103:
(Start: 2 @51479 has 159 MA's), (3, 51509), (4, 51536),

Gene: Burrough_104 Start: 53396, Stop: 53560, Start Num: 2
Candidate Starts for Burrough_104:
(Start: 2 @53396 has 159 MA's), (3, 53426), (4, 53453),

Gene: Bxz1_102 Start: 54834, Stop: 54998, Start Num: 2
Candidate Starts for Bxz1_102:
(Start: 2 @54834 has 159 MA's), (3, 54864), (4, 54891),

Gene: Cactojaque_99 Start: 51467, Stop: 51631, Start Num: 2
Candidate Starts for Cactojaque_99:
(Start: 2 @51467 has 159 MA's), (3, 51497), (4, 51524),

Gene: Cali_100 Start: 53398, Stop: 53562, Start Num: 2
Candidate Starts for Cali_100:
(Start: 2 @53398 has 159 MA's), (3, 53428), (4, 53455),

Gene: Cane17_94 Start: 53161, Stop: 53325, Start Num: 2

Candidate Starts for Cane17_94:
(Start: 2 @53161 has 159 MA's), (3, 53191), (4, 53218),

Gene: Capablanca_106 Start: 53648, Stop: 53812, Start Num: 2
Candidate Starts for Capablanca_106:
(Start: 2 @53648 has 159 MA's), (3, 53678), (4, 53705),

Gene: Caravan_99 Start: 52755, Stop: 52919, Start Num: 2
Candidate Starts for Caravan_99:
(Start: 2 @52755 has 159 MA's), (3, 52785), (4, 52812),

Gene: Catera_101 Start: 51671, Stop: 51835, Start Num: 2
Candidate Starts for Catera_101:
(Start: 2 @51671 has 159 MA's), (3, 51701), (4, 51728),

Gene: CharlieB_100 Start: 51800, Stop: 51964, Start Num: 2
Candidate Starts for CharlieB_100:
(Start: 2 @51800 has 159 MA's), (3, 51830), (4, 51857),

Gene: ChaylaJr_99 Start: 51294, Stop: 51458, Start Num: 2
Candidate Starts for ChaylaJr_99:
(Start: 2 @51294 has 159 MA's), (3, 51324), (4, 51351),

Gene: CherryTomatoes_100 Start: 56885, Stop: 57067, Start Num: 1
Candidate Starts for CherryTomatoes_100:
(Start: 1 @56885 has 4 MA's), (6, 57032), (7, 57062),

Gene: ChickenPhender_100 Start: 51597, Stop: 51761, Start Num: 2
Candidate Starts for ChickenPhender_100:
(Start: 2 @51597 has 159 MA's), (3, 51627), (4, 51654),

Gene: Chomp_103 Start: 53186, Stop: 53350, Start Num: 2
Candidate Starts for Chomp_103:
(Start: 2 @53186 has 159 MA's), (3, 53216), (4, 53243),

Gene: CindyLou_105 Start: 53227, Stop: 53391, Start Num: 2
Candidate Starts for CindyLou_105:
(Start: 2 @53227 has 159 MA's), (3, 53257), (4, 53284),

Gene: Cleatunium_98 Start: 51884, Stop: 52048, Start Num: 2
Candidate Starts for Cleatunium_98:
(Start: 2 @51884 has 159 MA's), (3, 51914), (4, 51941),

Gene: Colt_95 Start: 53757, Stop: 53921, Start Num: 2
Candidate Starts for Colt_95:
(Start: 2 @53757 has 159 MA's), (3, 53787), (4, 53814),

Gene: DTDevon_105 Start: 53672, Stop: 53836, Start Num: 2
Candidate Starts for DTDevon_105:
(Start: 2 @53672 has 159 MA's), (3, 53702), (4, 53729),

Gene: Daffodil_109 Start: 53369, Stop: 53533, Start Num: 2
Candidate Starts for Daffodil_109:

(Start: 2 @53369 has 159 MA's), (3, 53399), (4, 53426),

Gene: Darko_104 Start: 53305, Stop: 53469, Start Num: 2
Candidate Starts for Darko_104:
(Start: 2 @53305 has 159 MA's), (3, 53335), (4, 53362),

Gene: Delilah_104 Start: 53523, Stop: 53687, Start Num: 2
Candidate Starts for Delilah_104:
(Start: 2 @53523 has 159 MA's), (3, 53553), (4, 53580),

Gene: Delylah_107 Start: 53062, Stop: 53226, Start Num: 2
Candidate Starts for Delylah_107:
(Start: 2 @53062 has 159 MA's), (3, 53092), (4, 53119),

Gene: Demodog_111 Start: 55568, Stop: 55732, Start Num: 2
Candidate Starts for Demodog_111:
(Start: 2 @55568 has 159 MA's), (3, 55598),

Gene: Derek_104 Start: 52988, Stop: 53152, Start Num: 2
Candidate Starts for Derek_104:
(Start: 2 @52988 has 159 MA's), (3, 53018), (4, 53045),

Gene: Dessert_101 Start: 51464, Stop: 51628, Start Num: 2
Candidate Starts for Dessert_101:
(Start: 2 @51464 has 159 MA's), (3, 51494), (4, 51521),

Gene: Dietrick_96 Start: 51064, Stop: 51228, Start Num: 2
Candidate Starts for Dietrick_96:
(Start: 2 @51064 has 159 MA's), (3, 51094), (4, 51121),

Gene: DirtMonster_98 Start: 52556, Stop: 52720, Start Num: 2
Candidate Starts for DirtMonster_98:
(Start: 2 @52556 has 159 MA's), (3, 52586), (4, 52613),

Gene: Domi_98 Start: 52410, Stop: 52574, Start Num: 2
Candidate Starts for Domi_98:
(Start: 2 @52410 has 159 MA's), (3, 52440),

Gene: DrPhinkDaddy_103 Start: 53591, Stop: 53755, Start Num: 2
Candidate Starts for DrPhinkDaddy_103:
(Start: 2 @53591 has 159 MA's), (3, 53621), (4, 53648),

Gene: Drazdys_103 Start: 52286, Stop: 52450, Start Num: 2
Candidate Starts for Drazdys_103:
(Start: 2 @52286 has 159 MA's), (3, 52316), (4, 52343),

Gene: Duckfeet_97 Start: 51513, Stop: 51677, Start Num: 2
Candidate Starts for Duckfeet_97:
(Start: 2 @51513 has 159 MA's), (3, 51543), (4, 51570),

Gene: ET08_93 Start: 52052, Stop: 52216, Start Num: 2
Candidate Starts for ET08_93:
(Start: 2 @52052 has 159 MA's), (3, 52082),

Gene: EggyFarm_112 Start: 55327, Stop: 55491, Start Num: 2
Candidate Starts for EggyFarm_112:
(Start: 2 @55327 has 159 MA's), (3, 55357), (4, 55384),

Gene: EmmaElysia_104 Start: 52117, Stop: 52281, Start Num: 2
Candidate Starts for EmmaElysia_104:
(Start: 2 @52117 has 159 MA's), (3, 52147), (4, 52174),

Gene: Erdmann_105 Start: 53370, Stop: 53534, Start Num: 2
Candidate Starts for Erdmann_105:
(Start: 2 @53370 has 159 MA's), (3, 53400), (4, 53427),

Gene: Essence_101 Start: 52452, Stop: 52616, Start Num: 2
Candidate Starts for Essence_101:
(Start: 2 @52452 has 159 MA's), (3, 52482), (4, 52509),

Gene: Ewok_105 Start: 52757, Stop: 52921, Start Num: 2
Candidate Starts for Ewok_105:
(Start: 2 @52757 has 159 MA's), (3, 52787), (4, 52814),

Gene: Fixie_101 Start: 52010, Stop: 52174, Start Num: 2
Candidate Starts for Fixie_101:
(Start: 2 @52010 has 159 MA's), (3, 52040), (4, 52067),

Gene: Flabslab_98 Start: 50449, Stop: 50613, Start Num: 2
Candidate Starts for Flabslab_98:
(Start: 2 @50449 has 159 MA's), (3, 50479), (4, 50506),

Gene: Fongie_102 Start: 52970, Stop: 53134, Start Num: 2
Candidate Starts for Fongie_102:
(Start: 2 @52970 has 159 MA's), (3, 53000), (4, 53027),

Gene: FoxtrotP1_104 Start: 54540, Stop: 54704, Start Num: 2
Candidate Starts for FoxtrotP1_104:
(Start: 2 @54540 has 159 MA's), (3, 54570), (4, 54597),

Gene: FrayBell_109 Start: 53938, Stop: 54102, Start Num: 2
Candidate Starts for FrayBell_109:
(Start: 2 @53938 has 159 MA's), (3, 53968), (4, 53995),

Gene: Gabriel_105 Start: 51858, Stop: 52022, Start Num: 2
Candidate Starts for Gabriel_105:
(Start: 2 @51858 has 159 MA's), (3, 51888), (4, 51915),

Gene: Gamgam_104 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for Gamgam_104:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Ghost_103 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for Ghost_103:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Gizmo_108 Start: 54520, Stop: 54684, Start Num: 2
Candidate Starts for Gizmo_108:
(Start: 2 @54520 has 159 MA's), (3, 54550), (4, 54577),

Gene: GlutenPhree_105 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for GlutenPhree_105:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Grasshills_111 Start: 55327, Stop: 55491, Start Num: 2
Candidate Starts for Grasshills_111:
(Start: 2 @55327 has 159 MA's), (3, 55357), (4, 55384),

Gene: Grungle_92 Start: 49710, Stop: 49874, Start Num: 2
Candidate Starts for Grungle_92:
(Start: 2 @49710 has 159 MA's), (3, 49740),

Gene: Guwapp_103 Start: 52023, Stop: 52187, Start Num: 2
Candidate Starts for Guwapp_103:
(Start: 2 @52023 has 159 MA's), (3, 52053), (4, 52080),

Gene: Halldule_98 Start: 50736, Stop: 50900, Start Num: 2
Candidate Starts for Halldule_98:
(Start: 2 @50736 has 159 MA's), (3, 50766),

Gene: InigoMontoya_105 Start: 51859, Stop: 52023, Start Num: 2
Candidate Starts for InigoMontoya_105:
(Start: 2 @51859 has 159 MA's), (3, 51889), (4, 51916),

Gene: InterFolia_112 Start: 54873, Stop: 55037, Start Num: 2
Candidate Starts for InterFolia_112:
(Start: 2 @54873 has 159 MA's), (3, 54903), (4, 54930),

Gene: Iota_99 Start: 52335, Stop: 52499, Start Num: 2
Candidate Starts for Iota_99:
(Start: 2 @52335 has 159 MA's), (3, 52365), (4, 52392),

Gene: Issimir_103 Start: 53344, Stop: 53508, Start Num: 2
Candidate Starts for Issimir_103:
(Start: 2 @53344 has 159 MA's), (3, 53374), (4, 53401),

Gene: Izajani_104 Start: 53550, Stop: 53714, Start Num: 2
Candidate Starts for Izajani_104:
(Start: 2 @53550 has 159 MA's), (3, 53580), (4, 53607),

Gene: JPickles_102 Start: 51129, Stop: 51293, Start Num: 2
Candidate Starts for JPickles_102:
(Start: 2 @51129 has 159 MA's), (3, 51159), (4, 51186),

Gene: Janiyra_106 Start: 52825, Stop: 52989, Start Num: 2
Candidate Starts for Janiyra_106:
(Start: 2 @52825 has 159 MA's), (3, 52855), (4, 52882),

Gene: Jaygup_104 Start: 52654, Stop: 52818, Start Num: 2

Candidate Starts for Jaygup_104:
(Start: 2 @52654 has 159 MA's), (3, 52684), (4, 52711),

Gene: Jedediah_107 Start: 53187, Stop: 53351, Start Num: 2
Candidate Starts for Jedediah_107:
(Start: 2 @53187 has 159 MA's), (3, 53217), (4, 53244),

Gene: Jemmno_104 Start: 52634, Stop: 52798, Start Num: 2
Candidate Starts for Jemmno_104:
(Start: 2 @52634 has 159 MA's), (3, 52664), (4, 52691),

Gene: Jessibeth14_103 Start: 53155, Stop: 53319, Start Num: 2
Candidate Starts for Jessibeth14_103:
(Start: 2 @53155 has 159 MA's), (3, 53185), (4, 53212),

Gene: Jezreel_104 Start: 53318, Stop: 53482, Start Num: 2
Candidate Starts for Jezreel_104:
(Start: 2 @53318 has 159 MA's), (3, 53348), (4, 53375),

Gene: JigglyPuff_112 Start: 55484, Stop: 55648, Start Num: 2
Candidate Starts for JigglyPuff_112:
(Start: 2 @55484 has 159 MA's), (3, 55514), (4, 55541),

Gene: JulietS_98 Start: 50589, Stop: 50753, Start Num: 2
Candidate Starts for JulietS_98:
(Start: 2 @50589 has 159 MA's), (3, 50619),

Gene: JustHall_101 Start: 52693, Stop: 52857, Start Num: 2
Candidate Starts for JustHall_101:
(Start: 2 @52693 has 159 MA's), (3, 52723), (4, 52750),

Gene: Kamryn_104 Start: 53970, Stop: 54134, Start Num: 2
Candidate Starts for Kamryn_104:
(Start: 2 @53970 has 159 MA's), (3, 54000), (4, 54027),

Gene: Kboogie_108 Start: 52326, Stop: 52490, Start Num: 2
Candidate Starts for Kboogie_108:
(Start: 2 @52326 has 159 MA's), (3, 52356), (4, 52383),

Gene: Khaleesi_103 Start: 53269, Stop: 53433, Start Num: 2
Candidate Starts for Khaleesi_103:
(Start: 2 @53269 has 159 MA's), (3, 53299), (4, 53326),

Gene: Koguma_101 Start: 50814, Stop: 50978, Start Num: 2
Candidate Starts for Koguma_101:
(Start: 2 @50814 has 159 MA's), (3, 50844), (4, 50871),

Gene: Labradorite_103 Start: 51585, Stop: 51749, Start Num: 2
Candidate Starts for Labradorite_103:
(Start: 2 @51585 has 159 MA's), (3, 51615), (4, 51642),

Gene: Latch_104 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for Latch_104:

(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Lee7_102 Start: 53903, Stop: 54067, Start Num: 2
Candidate Starts for Lee7_102:
(Start: 2 @53903 has 159 MA's), (3, 53933), (4, 53960),

Gene: Lethe_103 Start: 53341, Stop: 53505, Start Num: 2
Candidate Starts for Lethe_103:
(Start: 2 @53341 has 159 MA's), (3, 53371), (4, 53398),

Gene: LifeSavor_103 Start: 52586, Stop: 52750, Start Num: 2
Candidate Starts for LifeSavor_103:
(Start: 2 @52586 has 159 MA's), (3, 52616), (4, 52643),

Gene: Littleton_104 Start: 52715, Stop: 52879, Start Num: 2
Candidate Starts for Littleton_104:
(Start: 2 @52715 has 159 MA's), (3, 52745), (4, 52772),

Gene: LolaVinca_105 Start: 53589, Stop: 53753, Start Num: 2
Candidate Starts for LolaVinca_105:
(Start: 2 @53589 has 159 MA's), (3, 53619), (4, 53646),

Gene: LookingGlass_105 Start: 53413, Stop: 53577, Start Num: 2
Candidate Starts for LookingGlass_105:
(Start: 2 @53413 has 159 MA's), (3, 53443),

Gene: LordLeafolot_109 Start: 54556, Stop: 54720, Start Num: 2
Candidate Starts for LordLeafolot_109:
(Start: 2 @54556 has 159 MA's), (3, 54586), (4, 54613),

Gene: Lukilu_95 Start: 53002, Stop: 53166, Start Num: 2
Candidate Starts for Lukilu_95:
(Start: 2 @53002 has 159 MA's), (3, 53032), (4, 53059),

Gene: Lunareta_103 Start: 54509, Stop: 54673, Start Num: 2
Candidate Starts for Lunareta_103:
(Start: 2 @54509 has 159 MA's), (3, 54539), (4, 54566),

Gene: Maby2021_104 Start: 53363, Stop: 53527, Start Num: 2
Candidate Starts for Maby2021_104:
(Start: 2 @53363 has 159 MA's), (3, 53393), (4, 53420),

Gene: Mangeria_104 Start: 53432, Stop: 53596, Start Num: 2
Candidate Starts for Mangeria_104:
(Start: 2 @53432 has 159 MA's), (3, 53462), (4, 53489),

Gene: Matsumoto_102 Start: 52214, Stop: 52378, Start Num: 2
Candidate Starts for Matsumoto_102:
(Start: 2 @52214 has 159 MA's), (3, 52244), (4, 52271),

Gene: Maturis_102 Start: 53005, Stop: 53169, Start Num: 2
Candidate Starts for Maturis_102:
(Start: 2 @53005 has 159 MA's), (3, 53035), (4, 53062),

Gene: McGee_106 Start: 51967, Stop: 52131, Start Num: 2
Candidate Starts for McGee_106:
(Start: 2 @51967 has 159 MA's), (3, 51997), (4, 52024),

Gene: McWolfish_102 Start: 53152, Stop: 53316, Start Num: 2
Candidate Starts for McWolfish_102:
(Start: 2 @53152 has 159 MA's), (3, 53182), (4, 53209),

Gene: Megamind_103 Start: 53036, Stop: 53200, Start Num: 2
Candidate Starts for Megamind_103:
(Start: 2 @53036 has 159 MA's), (3, 53066), (4, 53093),

Gene: Melpomini_98 Start: 50502, Stop: 50666, Start Num: 2
Candidate Starts for Melpomini_98:
(Start: 2 @50502 has 159 MA's), (3, 50532), (4, 50559),

Gene: MikeLiesIn_105 Start: 53383, Stop: 53547, Start Num: 2
Candidate Starts for MikeLiesIn_105:
(Start: 2 @53383 has 159 MA's), (3, 53413), (4, 53440),

Gene: Mikro_102 Start: 54605, Stop: 54769, Start Num: 2
Candidate Starts for Mikro_102:
(Start: 2 @54605 has 159 MA's), (3, 54635), (4, 54662),

Gene: MoMoMixon_105 Start: 52859, Stop: 53023, Start Num: 2
Candidate Starts for MoMoMixon_105:
(Start: 2 @52859 has 159 MA's), (3, 52889), (4, 52916),

Gene: Momo_103 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for Momo_103:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Montpel_103 Start: 54507, Stop: 54671, Start Num: 2
Candidate Starts for Montpel_103:
(Start: 2 @54507 has 159 MA's), (3, 54537), (4, 54564),

Gene: Morizzled23_104 Start: 52263, Stop: 52427, Start Num: 2
Candidate Starts for Morizzled23_104:
(Start: 2 @52263 has 159 MA's), (3, 52293), (4, 52320),

Gene: Naija_103 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for Naija_103:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Napoleon13_100 Start: 50940, Stop: 51104, Start Num: 2
Candidate Starts for Napoleon13_100:
(Start: 2 @50940 has 159 MA's), (3, 50970), (4, 50997),

Gene: Nappy_107 Start: 54293, Stop: 54457, Start Num: 2
Candidate Starts for Nappy_107:
(Start: 2 @54293 has 159 MA's), (3, 54323), (4, 54350),

Gene: Naval22_109 Start: 54874, Stop: 55038, Start Num: 2
Candidate Starts for Naval22_109:
(Start: 2 @54874 has 159 MA's), (3, 54904), (4, 54931),

Gene: NedWong_105 Start: 53370, Stop: 53534, Start Num: 2
Candidate Starts for NedWong_105:
(Start: 2 @53370 has 159 MA's), (3, 53400), (4, 53427),

Gene: Ngannou_100 Start: 50880, Stop: 51044, Start Num: 2
Candidate Starts for Ngannou_100:
(Start: 2 @50880 has 159 MA's), (3, 50910), (4, 50937),

Gene: Nidhogg_105 Start: 53104, Stop: 53268, Start Num: 2
Candidate Starts for Nidhogg_105:
(Start: 2 @53104 has 159 MA's), (3, 53134), (4, 53161),

Gene: NoodleTree_111 Start: 53696, Stop: 53860, Start Num: 2
Candidate Starts for NoodleTree_111:
(Start: 2 @53696 has 159 MA's), (3, 53726), (4, 53753),

Gene: Norm_105 Start: 54299, Stop: 54463, Start Num: 2
Candidate Starts for Norm_105:
(Start: 2 @54299 has 159 MA's), (3, 54329), (4, 54356),

Gene: NuevoMundo_110 Start: 55644, Stop: 55808, Start Num: 2
Candidate Starts for NuevoMundo_110:
(Start: 2 @55644 has 159 MA's), (3, 55674), (4, 55701),

Gene: OrediggerDelux_102 Start: 53900, Stop: 54064, Start Num: 2
Candidate Starts for OrediggerDelux_102:
(Start: 2 @53900 has 159 MA's), (3, 53930), (4, 53957),

Gene: ParkTD_105 Start: 53366, Stop: 53530, Start Num: 2
Candidate Starts for ParkTD_105:
(Start: 2 @53366 has 159 MA's), (3, 53396), (4, 53423),

Gene: Patter_104 Start: 51915, Stop: 52079, Start Num: 2
Candidate Starts for Patter_104:
(Start: 2 @51915 has 159 MA's), (3, 51945), (4, 51972),

Gene: PharkleMinkus_108 Start: 53938, Stop: 54102, Start Num: 2
Candidate Starts for PharkleMinkus_108:
(Start: 2 @53938 has 159 MA's), (3, 53968), (4, 53995),

Gene: Phlegm_106 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for Phlegm_106:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Phox_101 Start: 53646, Stop: 53810, Start Num: 2
Candidate Starts for Phox_101:
(Start: 2 @53646 has 159 MA's), (3, 53676), (4, 53703),

Gene: Phusco_104 Start: 52663, Stop: 52827, Start Num: 2

Candidate Starts for Phusco_104:
(Start: 2 @52663 has 159 MA's), (3, 52693), (4, 52720),

Gene: Pier_109 Start: 55652, Stop: 55816, Start Num: 2
Candidate Starts for Pier_109:
(Start: 2 @55652 has 159 MA's), (3, 55682), (4, 55709),

Gene: Pio_108 Start: 55256, Stop: 55420, Start Num: 2
Candidate Starts for Pio_108:
(Start: 2 @55256 has 159 MA's), (3, 55286), (4, 55313),

Gene: Pivoine_103 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for Pivoine_103:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Pleione_107 Start: 53533, Stop: 53697, Start Num: 2
Candidate Starts for Pleione_107:
(Start: 2 @53533 has 159 MA's), (3, 53563), (4, 53590),

Gene: Primadonna_98 Start: 52262, Stop: 52426, Start Num: 2
Candidate Starts for Primadonna_98:
(Start: 2 @52262 has 159 MA's), (3, 52292), (4, 52319),

Gene: Pupper_100 Start: 57006, Stop: 57188, Start Num: 1
Candidate Starts for Pupper_100:
(Start: 1 @57006 has 4 MA's), (6, 57153), (7, 57183),

Gene: Pupusa_110 Start: 54745, Stop: 54909, Start Num: 2
Candidate Starts for Pupusa_110:
(Start: 2 @54745 has 159 MA's), (3, 54775), (4, 54802),

Gene: PurduePete_104 Start: 53790, Stop: 53954, Start Num: 2
Candidate Starts for PurduePete_104:
(Start: 2 @53790 has 159 MA's), (3, 53820), (4, 53847),

Gene: QBert_98 Start: 52438, Stop: 52602, Start Num: 2
Candidate Starts for QBert_98:
(Start: 2 @52438 has 159 MA's), (3, 52468), (4, 52495),

Gene: Quasimodo_105 Start: 53325, Stop: 53489, Start Num: 2
Candidate Starts for Quasimodo_105:
(Start: 2 @53325 has 159 MA's), (3, 53355), (4, 53382),

Gene: Rabinovish_102 Start: 53562, Stop: 53726, Start Num: 2
Candidate Starts for Rabinovish_102:
(Start: 2 @53562 has 159 MA's), (3, 53592), (4, 53619),

Gene: Rahel_103 Start: 52255, Stop: 52419, Start Num: 2
Candidate Starts for Rahel_103:
(Start: 2 @52255 has 159 MA's), (3, 52285), (4, 52312),

Gene: Rizal_100 Start: 51403, Stop: 51567, Start Num: 2
Candidate Starts for Rizal_100:

(Start: 2 @51403 has 159 MA's), (3, 51433), (4, 51460),

Gene: RoMag_99 Start: 52575, Stop: 52739, Start Num: 2
Candidate Starts for RoMag_99:
(Start: 2 @52575 has 159 MA's), (3, 52605),

Gene: Rocha_103 Start: 52828, Stop: 52992, Start Num: 2
Candidate Starts for Rocha_103:
(Start: 2 @52828 has 159 MA's), (3, 52858),

Gene: Ronan_98 Start: 50526, Stop: 50690, Start Num: 2
Candidate Starts for Ronan_98:
(Start: 2 @50526 has 159 MA's), (3, 50556),

Gene: Roots515_103 Start: 53563, Stop: 53727, Start Num: 2
Candidate Starts for Roots515_103:
(Start: 2 @53563 has 159 MA's), (3, 53593), (4, 53620),

Gene: SCentae_99 Start: 57152, Stop: 57334, Start Num: 1
Candidate Starts for SCentae_99:
(Start: 1 @57152 has 4 MA's), (6, 57299), (7, 57329),

Gene: SVoro_102 Start: 53740, Stop: 53904, Start Num: 2
Candidate Starts for SVoro_102:
(Start: 2 @53740 has 159 MA's), (3, 53770), (4, 53797),

Gene: Salacia_108 Start: 53704, Stop: 53868, Start Num: 2
Candidate Starts for Salacia_108:
(Start: 2 @53704 has 159 MA's), (3, 53734), (4, 53761),

Gene: ScottMcG_101 Start: 52325, Stop: 52489, Start Num: 2
Candidate Starts for ScottMcG_101:
(Start: 2 @52325 has 159 MA's), (3, 52355), (4, 52382),

Gene: Shaqnato_97 Start: 51438, Stop: 51602, Start Num: 2
Candidate Starts for Shaqnato_97:
(Start: 2 @51438 has 159 MA's), (3, 51468),

Gene: Shelob_106 Start: 54151, Stop: 54315, Start Num: 2
Candidate Starts for Shelob_106:
(Start: 2 @54151 has 159 MA's), (3, 54181), (4, 54208),

Gene: ShiaLabeouf_103 Start: 52690, Stop: 52854, Start Num: 2
Candidate Starts for ShiaLabeouf_103:
(Start: 2 @52690 has 159 MA's), (3, 52720), (4, 52747),

Gene: Shnickers_104 Start: 52654, Stop: 52818, Start Num: 2
Candidate Starts for Shnickers_104:
(Start: 2 @52654 has 159 MA's), (3, 52684), (4, 52711),

Gene: Shrimp_104 Start: 53374, Stop: 53538, Start Num: 2
Candidate Starts for Shrimp_104:
(Start: 2 @53374 has 159 MA's), (3, 53404), (4, 53431),

Gene: SilverDipper_105 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for SilverDipper_105:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Skog_163 Start: 87702, Stop: 87884, Start Num: 1
Candidate Starts for Skog_163:
(Start: 1 @87702 has 4 MA's), (5, 87846), (6, 87849), (7, 87879),

Gene: SmallFry_104 Start: 51879, Stop: 52043, Start Num: 2
Candidate Starts for SmallFry_104:
(Start: 2 @51879 has 159 MA's), (3, 51909), (4, 51936),

Gene: Spec_100 Start: 52419, Stop: 52583, Start Num: 2
Candidate Starts for Spec_100:
(Start: 2 @52419 has 159 MA's), (3, 52449), (4, 52476),

Gene: Specks_109 Start: 54553, Stop: 54717, Start Num: 2
Candidate Starts for Specks_109:
(Start: 2 @54553 has 159 MA's), (3, 54583), (4, 54610),

Gene: Sprinklers_100 Start: 51935, Stop: 52099, Start Num: 2
Candidate Starts for Sprinklers_100:
(Start: 2 @51935 has 159 MA's), (3, 51965), (4, 51992),

Gene: Spud_104 Start: 53450, Stop: 53614, Start Num: 2
Candidate Starts for Spud_104:
(Start: 2 @53450 has 159 MA's), (3, 53480), (4, 53507),

Gene: SrishMeg2525_103 Start: 53472, Stop: 53636, Start Num: 2
Candidate Starts for SrishMeg2525_103:
(Start: 2 @53472 has 159 MA's), (3, 53502), (4, 53529),

Gene: StephanieG_103 Start: 54280, Stop: 54444, Start Num: 2
Candidate Starts for StephanieG_103:
(Start: 2 @54280 has 159 MA's), (3, 54310),

Gene: StubbySaigey_107 Start: 52067, Stop: 52231, Start Num: 2
Candidate Starts for StubbySaigey_107:
(Start: 2 @52067 has 159 MA's), (3, 52097), (4, 52124),

Gene: Substance289_102 Start: 52172, Stop: 52336, Start Num: 2
Candidate Starts for Substance289_102:
(Start: 2 @52172 has 159 MA's), (3, 52202), (4, 52229),

Gene: Tainan_108 Start: 53876, Stop: 54040, Start Num: 2
Candidate Starts for Tainan_108:
(Start: 2 @53876 has 159 MA's), (3, 53906), (4, 53933),

Gene: Teardrop_103 Start: 51877, Stop: 52041, Start Num: 2
Candidate Starts for Teardrop_103:
(Start: 2 @51877 has 159 MA's), (3, 51907), (4, 51934),

Gene: TinyTim_104 Start: 53130, Stop: 53294, Start Num: 2
Candidate Starts for TinyTim_104:
(Start: 2 @53130 has 159 MA's), (3, 53160), (4, 53187),

Gene: Tonenili_119 Start: 56876, Stop: 57040, Start Num: 2
Candidate Starts for Tonenili_119:
(Start: 2 @56876 has 159 MA's), (3, 56906), (4, 56933),

Gene: Tortoise16_101 Start: 52478, Stop: 52642, Start Num: 2
Candidate Starts for Tortoise16_101:
(Start: 2 @52478 has 159 MA's), (3, 52508), (4, 52535),

Gene: Trinitium_101 Start: 51833, Stop: 51997, Start Num: 2
Candidate Starts for Trinitium_101:
(Start: 2 @51833 has 159 MA's), (3, 51863), (4, 51890),

Gene: Turret_99 Start: 51278, Stop: 51442, Start Num: 2
Candidate Starts for Turret_99:
(Start: 2 @51278 has 159 MA's), (3, 51308), (4, 51335),

Gene: Tyke_105 Start: 54019, Stop: 54183, Start Num: 2
Candidate Starts for Tyke_105:
(Start: 2 @54019 has 159 MA's), (3, 54049), (4, 54076),

Gene: ValleyTerrace_104 Start: 51898, Stop: 52062, Start Num: 2
Candidate Starts for ValleyTerrace_104:
(Start: 2 @51898 has 159 MA's), (3, 51928), (4, 51955),

Gene: Vortrix_118 Start: 56192, Stop: 56356, Start Num: 2
Candidate Starts for Vortrix_118:
(Start: 2 @56192 has 159 MA's), (3, 56222), (4, 56249),

Gene: Wally_103 Start: 51908, Stop: 52072, Start Num: 2
Candidate Starts for Wally_103:
(Start: 2 @51908 has 159 MA's), (3, 51938), (4, 51965),

Gene: Willis_105 Start: 53265, Stop: 53429, Start Num: 2
Candidate Starts for Willis_105:
(Start: 2 @53265 has 159 MA's), (3, 53295), (4, 53322),

Gene: Yassified_101 Start: 51985, Stop: 52149, Start Num: 2
Candidate Starts for Yassified_101:
(Start: 2 @51985 has 159 MA's), (3, 52015), (4, 52042),

Gene: YemiJoy2021_105 Start: 53367, Stop: 53531, Start Num: 2
Candidate Starts for YemiJoy2021_105:
(Start: 2 @53367 has 159 MA's), (3, 53397), (4, 53424),

Gene: YoungMoneyMata_105 Start: 52534, Stop: 52698, Start Num: 2
Candidate Starts for YoungMoneyMata_105:
(Start: 2 @52534 has 159 MA's), (3, 52564), (4, 52591),

Gene: Yucca_104 Start: 53049, Stop: 53213, Start Num: 2

Candidate Starts for Yucca_104:
(Start: 2 @53049 has 159 MA's), (3, 53079), (4, 53106),

Gene: Zalkecks_105 Start: 53050, Stop: 53214, Start Num: 2
Candidate Starts for Zalkecks_105:
(Start: 2 @53050 has 159 MA's), (3, 53080), (4, 53107),

Gene: Zeenon_106 Start: 53135, Stop: 53299, Start Num: 2
Candidate Starts for Zeenon_106:
(Start: 2 @53135 has 159 MA's), (3, 53165), (4, 53192),

Gene: ZygoTaiga_103 Start: 54295, Stop: 54459, Start Num: 2
Candidate Starts for ZygoTaiga_103:
(Start: 2 @54295 has 159 MA's), (3, 54325), (4, 54352),