Pham 341605


6
11
14
17
1: BeanWater_101 + 218
12
3
4
5
6
10
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13
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2: Vortrix_123 + 1
7
10
15
3: ScoobyDoobyDoo_101
7
10
16
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4: Greely_108
7
8
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11
15
17
5: Myrna_106
7
8
10
12
16
17
6: Phabba_110

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 341605 Report

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

Pham number 341605 has 225 members, 31 are drafts.

Phages represented in each track:
• Track 1 : BeanWater_101, Caravan_104, Rocha_108, Essence_106, Ghost_108, ValleyTerrace_109, BadAgartude_105, Colt_100, Patter_109, ET08_98, Halldule_103, Naval22_117, Gamgam_109, Naija_108, Fixie_102, Ablatia_108, JigglyPuff_117, Drazdys_108, Salacia_113, Fongie_107, Delylah_112, ShiaLabeouf_108, Rizal_105, Dessert_109, Khaleesi_108, CindyLou_110, Puhon_113, LordLeafolot_114, NedWong_110, EasyJones_111, Primadonna_103, Delilah_109, I3_114, IkeLoa_102, Ewok_110, DTDevon_110, Blackdragon_105, Grasshills_116, Koguma_106, CharlieB_105, Lethe_108, LookingGlass_110, ErnieJ_104, SrishMeg2525_108, SiwenD96_111, Tainan_113, Sebata_110, Shelob_111, Erdmann_110, Yassified_106, Derek_109, Willis_110, Bowman_111, Astraea_106, Loanshark_108, Pio_113, EggyFarm_117, Domi_103, Roots515_108, Melpomini_103, Spec_106, Quasimodo_110, Pivoine_108, Moiqah_100, Bipolarisk_108, LolaVinca_110, Kboogie_113, Jezreel_109, ChaylaJr_104, SilverDipper_110, Mikro_107, GoldenSnow_113, PharkleMinkus_112, Issimir_108, Mangeria_109, BackyardAgain_106, Blubba_99, Rahel_108, Bigswole_113, HyRo_100, Ading_109, Jaygup_109, Maguvora_114, Shrimp_109, Trinitium_106, Cali_105, Pier_114, Maby2021_109, Dietrick_101, Napoleon13_105, Momo_108, JulietS_103, Sprinklers_105, Matsumoto_107, Ronan_103, TinyTim_109, Jessibeth14_108, LRRHood_103, YemiJoy2021_110, MoMoMixon_110, Breeniome_108, ScottMcG_106, BananaFence_108, Gizmo_113, Burrough_109, Stubby_101, Basquiat_105, Bonray_109, MikeLiesIn_110, Cane17_99, Jemmno_109, Zeenon_111, Megamind_108, JustHall_106, Sauce_109, Capablanca_111, NuevoMundo_115, OrediggerDelux_112, YoungMoneyMata_110, GlutenPhree_110, DrPhinkDaddy_108, Rabinovish_107, SmallFry_109, Shifa_97, Guwapp_108, McGee_111, Phlegm_111, Cleatunium_103, Latch_109, Shnickers_109, Bread_109, StephanieG_108, Ngannou_105, Pinkcreek_100, Tortoise16_106, Nidhogg_110, Chomp_108, Morizzled23_109, Lee7_112, Specks_114, InigoMontoya_110, Shaqnato_102, Ava3_110, Nappy_112, SVoro_107, Kamryn_109, Norm_110, Belieber_105, Janiyra_111, Chargie21_105, Turret_104, QBert_103, Substance289_107, NoodleTree_116, EmmaElysia_109, Phusco_109, ParkTD_110, FrayBell_114, Lunareta_108, Fludd_109, Blackbrain_104, ZygoTaiga_108, Catera_106, Jedediah_112, Phox_106, Littleton_109, Moby_100, Zalkecks_110, DeejaClivia_97, Grungle_97, Amataga_109, McWolfish_107, Lukilu_100, Pupusa_115, Tyke_110, Labradorite_110, Dandelion_115, ArcherS7_108, BigCity_117, FudgeTart_108, Iota_104, EmToTheThree_111, Duckfeet_102, SoilZilla_105, LifeSavor_108, BobaPhatt_106, Gabriel_110, Bxz1_107, Izajani_109, Asterius_112, Babyland_110, Teardrop_108,

Bangla1971_110, Atlantean_108, Wally_108, Yucca_109, Montpel_108, DirtMonster_103, Demodog_116, PurduePete_109, Daffodil_114, FoxtrotP1_109, Cactojaque_104, Spud_109, StubbySaigey_112, JayJay_114, JPickles_107, Bezza_103, Maturis_107, Flabslab_103, Darko_109, RoMag_104, LinStu_108, ChickenPhender_105, Audrick_111, Pleione_112, Adlitam_109, Concombre_115, Alice_102
• Track 2 : Vortrix_123, Tonenili_124
• Track 3 : ScoobyDoobyDoo_101
• Track 4 : Greely_108
• Track 5 : Myrna_106
• Track 6 : Phabba_110

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

The start number called the most often in the published annotations is 6, it was called in 191 of the 194 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_108, Ading_109, Adlitam_109, Alice_102, Amataga_109, ArcherS7_108, Asterius_112, Astraea_106, Atlantean_108, Audrick_111, Ava3_110, Babyland_110, BackyardAgain_106, BadAgartude_105, BananaFence_108, Bangla1971_110, Basquiat_105, BeanWater_101, Belieber_105, Bezza_103, BigCity_117, Bigswole_113, Bipolarisk_108, Blackbrain_104, Blackdragon_105, Blubba_99, BobaPhatt_106, Bonray_109, Bowman_111, Bread_109, Breeniome_108, Burrough_109, Bxz1_107, Cactojaque_104, Cali_105, Cane17_99, Capablanca_111, Caravan_104, Catera_106, Chargie21_105, CharlieB_105, ChaylaJr_104, ChickenPhender_105, Chomp_108, CindyLou_110, Cleatunium_103, Colt_100, Concombre_115, DTDevon_110, Daffodil_114, Dandelion_115, Darko_109, DeejaClivia_97, Delilah_109, Delylah_112, Demodog_116, Derek_109, Dessert_109, Dietrick_101, DirtMonster_103, Domi_103, DrPhinkDaddy_108, Drazdys_108, Duckfeet_102, ET08_98, EasyJones_111, EggyFarm_117, EmToTheThree_111, EmmaElysia_109, Erdmann_110, ErnieJ_104, Essence_106, Ewok_110, Fixie_102, Flabslab_103, Fludd_109, Fongie_107, FoxtrotP1_109, FrayBell_114, FudgeTart_108, Gabriel_110, Gamgam_109, Ghost_108, Gizmo_113, GlutenPhree_110, GoldenSnow_113, Grasshills_116, Grungle_97, Guwapp_108, Halldule_103, HyRo_100, I3_114, IkeLoa_102, InigoMontoya_110, Iota_104, Issimir_108, Izajani_109, JPickles_107, Janiyra_111, JayJay_114, Jaygup_109, Jedediah_112, Jemmno_109, Jessibeth14_108, Jezreel_109, JigglyPuff_117, JulietS_103, JustHall_106, Kamryn_109, Kboogie_113, Khaleesi_108, Koguma_106, LRRHood_103, Labradorite_110, Latch_109, Lee7_112, Lethe_108, LifeSavor_108, LinStu_108, Littleton_109, Loanshark_108, LolaVinca_110, LookingGlass_110, LordLeafolot_114, Lukilu_100, Lunareta_108, Maby2021_109, Maguvora_114, Mangeria_109, Matsumoto_107, Maturis_107, McGee_111, McWolfish_107, Megamind_108, Melpomini_103, MikeLiesIn_110, Mikro_107, MoMoMixon_110, Moby_100, Moiqah_100, Momo_108, Montpel_108, Morizzled23_109, Naija_108, Napoleon13_105, Nappy_112, Naval22_117, NedWong_110, Ngannou_105, Nidhogg_110, NoodleTree_116, Norm_110, NuevoMundo_115, OrediggerDelux_112, ParkTD_110, Patter_109, PharkleMinkus_112, Phlegm_111, Phox_106, Phusco_109, Pier_114, Pinkcreek_100, Pio_113, Pivoine_108, Pleione_112, Primadonna_103, Puhon_113, Pupusa_115, PurduePete_109, QBert_103, Quasimodo_110,

Rabinovish_107, Rahel_108, Rizal_105, RoMag_104, Rocha_108, Ronan_103, Roots515_108, SVoro_107, Salacia_113, Sauce_109, ScottMcG_106, Sebata_110, Shaqnato_102, Shelob_111, ShiaLabeouf_108, Shifa_97, Shnickers_109, Shrimp_109, SilverDipper_110, SiwenD96_111, SmallFry_109, SoilZilla_105, Spec_106, Specks_114, Sprinklers_105, Spud_109, SrishMeg2525_108, StephanieG_108, StubbySaigey_112, Stubby_101, Substance289_107, Tainan_113, Teardrop_108, TinyTim_109, Tonenili_124, Tortoise16_106, Trinitium_106, Turret_104, Tyke_110, ValleyTerrace_109, Vortrix_123, Wally_108, Willis_110, Yassified_106, YemiJoy2021_110, YoungMoneyMata_110, Yucca_109, Zalkecks_110, Zeenon_111, ZygoTaiga_108,

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

Genes that do not have the "Most Annotated" start:
• Greely_108, Myrna_106, Phabba_110, ScoobyDoobyDoo_101,

Summary by start number:

Start 6:
• Found in 221 of 225 (98.2%) of genes in pham
• Manual Annotations of this start: 191 of 194
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ablatia_108 (C1), Ading_109 (C1), Adlitam_109 (C1), Alice_102 (C1), Amataga_109 (C1), ArcherS7_108 (C1), Asterius_112 (C1), Astraea_106 (C1), Atlantean_108 (C1), Audrick_111 (C1), Ava3_110 (C1), Babyland_110 (C1), BackyardAgain_106 (C1), BadAgartude_105 (C1), BananaFence_108 (C1), Bangla1971_110 (C1), Basquiat_105 (C1), BeanWater_101 (C1), Belieber_105 (C1), Bezza_103 (C1), BigCity_117 (C1), Bigswole_113 (C1), Bipolarisk_108 (C1), Blackbrain_104 (C1), Blackdragon_105 (C1), Blubba_99 (C1), BobaPhatt_106 (C1), Bonray_109 (C1), Bowman_111 (C1), Bread_109 (C1), Breeniome_108 (C1), Burrough_109 (C1), Bxz1_107 (C1), Cactojaque_104 (C1), Cali_105 (C1), Cane17_99 (C1), Capablanca_111 (C1), Caravan_104 (C1), Catera_106 (C1), Chargie21_105 (C1), CharlieB_105 (C1), ChaylaJr_104 (C1), ChickenPhender_105 (C1), Chomp_108 (C1), CindyLou_110 (C1), Cleatunium_103 (C1), Colt_100 (C1), Concombre_115 (C1), DTDevon_110 (C1), Daffodil_114 (C1), Dandelion_115 (C1), Darko_109 (C1), DeejaClivia_97 (C1), Delilah_109 (C1), Delylah_112 (C1), Demodog_116 (C1), Derek_109 (C1), Dessert_109 (C1), Dietrick_101 (C1), DirtMonster_103 (C1), Domi_103 (C1), DrPhinkDaddy_108 (C1), Drazdys_108 (C1), Duckfeet_102 (C1), ET08_98 (C1), EasyJones_111 (C1), EggyFarm_117 (C1), EmToTheThree_111 (C1), EmmaElysia_109 (C1), Erdmann_110 (C1), ErnieJ_104 (C1), Essence_106 (C1), Ewok_110 (C1), Fixie_102 (C1), Flabslab_103 (C1), Fludd_109 (C1), Fongie_107 (C1), FoxtrotP1_109 (C1), FrayBell_114 (C1), FudgeTart_108 (C1), Gabriel_110 (C1), Gamgam_109 (C1), Ghost_108 (C1), Gizmo_113 (C1), GlutenPhree_110 (C1), GoldenSnow_113 (C1), Grasshills_116 (C1), Grungle_97 (C1), Guwapp_108 (C1), Halldule_103 (C1), HyRo_100 (C1), I3_114 (C1), IkeLoa_102 (C1), InigoMontoya_110 (C1), Iota_104 (C1), Issimir_108 (C1), Izajani_109 (C1), JPickles_107 (C1), Janiyra_111 (C1), JayJay_114 (C1), Jaygup_109 (C1), Jedediah_112 (C1), Jemmno_109 (C1), Jessibeth14_108 (C1), Jezreel_109 (C1), JigglyPuff_117 (C1), JulietS_103 (C1), JustHall_106 (C1), Kamryn_109 (C1), Kboogie_113 (C1), Khaleesi_108 (C1), Koguma_106 (C1), LRRHood_103 (C1), Labradorite_110 (C1), Latch_109 (C1), Lee7_112 (C1), Lethe_108 (C1),

LifeSavor_108 (C1), LinStu_108 (C1), Littleton_109 (C1), Loanshark_108 (C1), LolaVinca_110 (C1), LookingGlass_110 (C1), LordLeafolot_114 (C1), Lukilu_100 (C1), Lunareta_108 (C1), Maby2021_109 (C1), Maguvora_114 (C1), Mangeria_109 (C1), Matsumoto_107 (C1), Maturis_107 (C1), McGee_111 (C1), McWolfish_107 (C1), Megamind_108 (C1), Melpomini_103 (C1), MikeLiesIn_110 (C1), Mikro_107 (C1), MoMoMixon_110 (C1), Moby_100 (C1), Moiqah_100 (C1), Momo_108 (C1), Montpel_108 (C1), Morizzled23_109 (C1), Naija_108 (C1), Napoleon13_105 (C1), Nappy_112 (C1), Naval22_117 (C1), NedWong_110 (C1), Ngannou_105 (C1), Nidhogg_110 (C1), NoodleTree_116 (C1), Norm_110 (C1), NuevoMundo_115 (C1), OrediggerDelux_112 (C1), ParkTD_110 (C1), Patter_109 (C1), PharkleMinkus_112 (C1), Phlegm_111 (C1), Phox_106 (C1), Phusco_109 (C1), Pier_114 (C1), Pinkcreek_100 (C1), Pio_113 (C1), Pivoine_108 (C1), Pleione_112 (C1), Primadonna_103 (C1), Puhon_113 (C1), Pupusa_115 (C1), PurduePete_109 (C1), QBert_103 (C1), Quasimodo_110 (C1), Rabinovish_107 (C1), Rahel_108 (C1), Rizal_105 (C1), RoMag_104 (C1), Rocha_108 (C1), Ronan_103 (C1), Roots515_108 (C1), SVoro_107 (C1), Salacia_113 (C1), Sauce_109 (C1), ScottMcG_106 (C1), Sebata_110 (C1), Shaqnato_102 (C1), Shelob_111 (C1), ShiaLabeouf_108 (C1), Shifa_97 (C1), Shnickers_109 (C1), Shrimp_109 (C1), SilverDipper_110 (C1), SiwenD96_111 (C1), SmallFry_109 (C1), SoilZilla_105 (C1), Spec_106 (C1), Specks_114 (C1), Sprinklers_105 (C1), Spud_109 (C1), SrishMeg2525_108 (C1), StephanieG_108 (C1), StubbySaigey_112 (C1), Stubby_101 (C1), Substance289_107 (C1), Tainan_113 (C1), Teardrop_108 (C1), TinyTim_109 (C1), Tonenili_124 (C1), Tortoise16_106 (C1), Trinitium_106 (C1), Turret_104 (C1), Tyke_110 (C1), ValleyTerrace_109 (C1), Vortrix_123 (C1), Wally_108 (C1), Willis_110 (C1), Yassified_106 (C1), YemiJoy2021_110 (C1), YoungMoneyMata_110 (C1), Yucca_109 (C1), Zalkecks_110 (C1), Zeenon_111 (C1), ZygoTaiga_108 (C1),

Start 7:
• Found in 4 of 225 (1.8%) of genes in pham
• Manual Annotations of this start: 3 of 194
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Greely_108 (C2), Myrna_106 (C2), Phabba_110 (C2), ScoobyDoobyDoo_101 (C2),

Summary by clusters:

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

Info for manual annotations of cluster C1:
•Start number 6 was manually annotated 191 times for cluster C1.

Info for manual annotations of cluster C2:
•Start number 7 was manually annotated 3 times for cluster C2.

Gene Information:

Gene: Ablatia_108 Start: 56226, Stop: 56456, Start Num: 6
Candidate Starts for Ablatia_108:
(Start: 6 @56226 has 191 MA's), (11, 56373), (14, 56403), (17, 56433),

Gene: Ading_109 Start: 56610, Stop: 56840, Start Num: 6

Candidate Starts for Ading_109:
(Start: 6 @56610 has 191 MA's), (11, 56757), (14, 56787), (17, 56817),

Gene: Adlitam_109 Start: 56627, Stop: 56857, Start Num: 6
Candidate Starts for Adlitam_109:
(Start: 6 @56627 has 191 MA's), (11, 56774), (14, 56804), (17, 56834),

Gene: Alice_102 Start: 55904, Stop: 56134, Start Num: 6
Candidate Starts for Alice_102:
(Start: 6 @55904 has 191 MA's), (11, 56051), (14, 56081), (17, 56111),

Gene: Amataga_109 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for Amataga_109:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: ArcherS7_108 Start: 56190, Stop: 56420, Start Num: 6
Candidate Starts for ArcherS7_108:
(Start: 6 @56190 has 191 MA's), (11, 56337), (14, 56367), (17, 56397),

Gene: Asterius_112 Start: 56865, Stop: 57095, Start Num: 6
Candidate Starts for Asterius_112:
(Start: 6 @56865 has 191 MA's), (11, 57012), (14, 57042), (17, 57072),

Gene: Astraea_106 Start: 55641, Stop: 55871, Start Num: 6
Candidate Starts for Astraea_106:
(Start: 6 @55641 has 191 MA's), (11, 55788), (14, 55818), (17, 55848),

Gene: Atlantean_108 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for Atlantean_108:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: Audrick_111 Start: 55851, Stop: 56081, Start Num: 6
Candidate Starts for Audrick_111:
(Start: 6 @55851 has 191 MA's), (11, 55998), (14, 56028), (17, 56058),

Gene: Ava3_110 Start: 56785, Stop: 57015, Start Num: 6
Candidate Starts for Ava3_110:
(Start: 6 @56785 has 191 MA's), (11, 56932), (14, 56962), (17, 56992),

Gene: Babyland_110 Start: 55960, Stop: 56190, Start Num: 6
Candidate Starts for Babyland_110:
(Start: 6 @55960 has 191 MA's), (11, 56107), (14, 56137), (17, 56167),

Gene: BackyardAgain_106 Start: 55787, Stop: 56017, Start Num: 6
Candidate Starts for BackyardAgain_106:
(Start: 6 @55787 has 191 MA's), (11, 55934), (14, 55964), (17, 55994),

Gene: BadAgartude_105 Start: 57076, Stop: 57306, Start Num: 6
Candidate Starts for BadAgartude_105:
(Start: 6 @57076 has 191 MA's), (11, 57223), (14, 57253), (17, 57283),

Gene: BananaFence_108 Start: 57041, Stop: 57271, Start Num: 6
Candidate Starts for BananaFence_108:

(Start: 6 @57041 has 191 MA's), (11, 57188), (14, 57218), (17, 57248),

Gene: Bangla1971_110 Start: 56320, Stop: 56550, Start Num: 6
Candidate Starts for Bangla1971_110:
(Start: 6 @56320 has 191 MA's), (11, 56467), (14, 56497), (17, 56527),

Gene: Basquiat_105 Start: 55503, Stop: 55733, Start Num: 6
Candidate Starts for Basquiat_105:
(Start: 6 @55503 has 191 MA's), (11, 55650), (14, 55680), (17, 55710),

Gene: BeanWater_101 Start: 56637, Stop: 56867, Start Num: 6
Candidate Starts for BeanWater_101:
(Start: 6 @56637 has 191 MA's), (11, 56784), (14, 56814), (17, 56844),

Gene: Belieber_105 Start: 56103, Stop: 56333, Start Num: 6
Candidate Starts for Belieber_105:
(Start: 6 @56103 has 191 MA's), (11, 56250), (14, 56280), (17, 56310),

Gene: Bezza_103 Start: 56068, Stop: 56298, Start Num: 6
Candidate Starts for Bezza_103:
(Start: 6 @56068 has 191 MA's), (11, 56215), (14, 56245), (17, 56275),

Gene: BigCity_117 Start: 59301, Stop: 59531, Start Num: 6
Candidate Starts for BigCity_117:
(Start: 6 @59301 has 191 MA's), (11, 59448), (14, 59478), (17, 59508),

Gene: Bigswole_113 Start: 58586, Stop: 58816, Start Num: 6
Candidate Starts for Bigswole_113:
(Start: 6 @58586 has 191 MA's), (11, 58733), (14, 58763), (17, 58793),

Gene: Bipolarisk_108 Start: 57043, Stop: 57273, Start Num: 6
Candidate Starts for Bipolarisk_108:
(Start: 6 @57043 has 191 MA's), (11, 57190), (14, 57220), (17, 57250),

Gene: Blackbrain_104 Start: 55334, Stop: 55564, Start Num: 6
Candidate Starts for Blackbrain_104:
(Start: 6 @55334 has 191 MA's), (11, 55481), (14, 55511), (17, 55541),

Gene: Blackdragon_105 Start: 56467, Stop: 56697, Start Num: 6
Candidate Starts for Blackdragon_105:
(Start: 6 @56467 has 191 MA's), (11, 56614), (14, 56644), (17, 56674),

Gene: Blubba_99 Start: 57074, Stop: 57304, Start Num: 6
Candidate Starts for Blubba_99:
(Start: 6 @57074 has 191 MA's), (11, 57221), (14, 57251), (17, 57281),

Gene: BobaPhatt_106 Start: 55393, Stop: 55623, Start Num: 6
Candidate Starts for BobaPhatt_106:
(Start: 6 @55393 has 191 MA's), (11, 55540), (14, 55570), (17, 55600),

Gene: Bonray_109 Start: 57216, Stop: 57446, Start Num: 6
Candidate Starts for Bonray_109:
(Start: 6 @57216 has 191 MA's), (11, 57363), (14, 57393), (17, 57423),

Gene: Bowman_111 Start: 56777, Stop: 57007, Start Num: 6
Candidate Starts for Bowman_111:
(Start: 6 @56777 has 191 MA's), (11, 56924), (14, 56954), (17, 56984),

Gene: Bread_109 Start: 56871, Stop: 57101, Start Num: 6
Candidate Starts for Bread_109:
(Start: 6 @56871 has 191 MA's), (11, 57018), (14, 57048), (17, 57078),

Gene: Breeniome_108 Start: 55219, Stop: 55449, Start Num: 6
Candidate Starts for Breeniome_108:
(Start: 6 @55219 has 191 MA's), (11, 55366), (14, 55396), (17, 55426),

Gene: Burrough_109 Start: 57370, Stop: 57600, Start Num: 6
Candidate Starts for Burrough_109:
(Start: 6 @57370 has 191 MA's), (11, 57517), (14, 57547), (17, 57577),

Gene: Bxz1_107 Start: 58574, Stop: 58804, Start Num: 6
Candidate Starts for Bxz1_107:
(Start: 6 @58574 has 191 MA's), (11, 58721), (14, 58751), (17, 58781),

Gene: Cactojaque_104 Start: 55441, Stop: 55671, Start Num: 6
Candidate Starts for Cactojaque_104:
(Start: 6 @55441 has 191 MA's), (11, 55588), (14, 55618), (17, 55648),

Gene: Cali_105 Start: 57372, Stop: 57602, Start Num: 6
Candidate Starts for Cali_105:
(Start: 6 @57372 has 191 MA's), (11, 57519), (14, 57549), (17, 57579),

Gene: Cane17_99 Start: 57132, Stop: 57362, Start Num: 6
Candidate Starts for Cane17_99:
(Start: 6 @57132 has 191 MA's), (11, 57279), (14, 57309), (17, 57339),

Gene: Capablanca_111 Start: 57622, Stop: 57852, Start Num: 6
Candidate Starts for Capablanca_111:
(Start: 6 @57622 has 191 MA's), (11, 57769), (14, 57799), (17, 57829),

Gene: Caravan_104 Start: 56729, Stop: 56959, Start Num: 6
Candidate Starts for Caravan_104:
(Start: 6 @56729 has 191 MA's), (11, 56876), (14, 56906), (17, 56936),

Gene: Catera_106 Start: 55645, Stop: 55875, Start Num: 6
Candidate Starts for Catera_106:
(Start: 6 @55645 has 191 MA's), (11, 55792), (14, 55822), (17, 55852),

Gene: Chargie21_105 Start: 55503, Stop: 55733, Start Num: 6
Candidate Starts for Chargie21_105:
(Start: 6 @55503 has 191 MA's), (11, 55650), (14, 55680), (17, 55710),

Gene: CharlieB_105 Start: 55774, Stop: 56004, Start Num: 6
Candidate Starts for CharlieB_105:
(Start: 6 @55774 has 191 MA's), (11, 55921), (14, 55951), (17, 55981),

Gene: ChaylaJr_104 Start: 55268, Stop: 55498, Start Num: 6
Candidate Starts for ChaylaJr_104:
(Start: 6 @55268 has 191 MA's), (11, 55415), (14, 55445), (17, 55475),

Gene: ChickenPhender_105 Start: 55571, Stop: 55801, Start Num: 6
Candidate Starts for ChickenPhender_105:
(Start: 6 @55571 has 191 MA's), (11, 55718), (14, 55748), (17, 55778),

Gene: Chomp_108 Start: 57160, Stop: 57390, Start Num: 6
Candidate Starts for Chomp_108:
(Start: 6 @57160 has 191 MA's), (11, 57307), (14, 57337), (17, 57367),

Gene: CindyLou_110 Start: 57201, Stop: 57431, Start Num: 6
Candidate Starts for CindyLou_110:
(Start: 6 @57201 has 191 MA's), (11, 57348), (14, 57378), (17, 57408),

Gene: Cleatunium_103 Start: 55858, Stop: 56088, Start Num: 6
Candidate Starts for Cleatunium_103:
(Start: 6 @55858 has 191 MA's), (11, 56005), (14, 56035), (17, 56065),

Gene: Colt_100 Start: 57728, Stop: 57958, Start Num: 6
Candidate Starts for Colt_100:
(Start: 6 @57728 has 191 MA's), (11, 57875), (14, 57905), (17, 57935),

Gene: Concombre_115 Start: 59532, Stop: 59762, Start Num: 6
Candidate Starts for Concombre_115:
(Start: 6 @59532 has 191 MA's), (11, 59679), (14, 59709), (17, 59739),

Gene: DTDevon_110 Start: 57412, Stop: 57642, Start Num: 6
Candidate Starts for DTDevon_110:
(Start: 6 @57412 has 191 MA's), (11, 57559), (14, 57589), (17, 57619),

Gene: Daffodil_114 Start: 57343, Stop: 57573, Start Num: 6
Candidate Starts for Daffodil_114:
(Start: 6 @57343 has 191 MA's), (11, 57490), (14, 57520), (17, 57550),

Gene: Dandelion_115 Start: 59524, Stop: 59754, Start Num: 6
Candidate Starts for Dandelion_115:
(Start: 6 @59524 has 191 MA's), (11, 59671), (14, 59701), (17, 59731),

Gene: Darko_109 Start: 57045, Stop: 57275, Start Num: 6
Candidate Starts for Darko_109:
(Start: 6 @57045 has 191 MA's), (11, 57192), (14, 57222), (17, 57252),

Gene: DeejaClivia_97 Start: 53700, Stop: 53930, Start Num: 6
Candidate Starts for DeejaClivia_97:
(Start: 6 @53700 has 191 MA's), (11, 53847), (14, 53877), (17, 53907),

Gene: Delilah_109 Start: 57497, Stop: 57727, Start Num: 6
Candidate Starts for Delilah_109:
(Start: 6 @57497 has 191 MA's), (11, 57644), (14, 57674), (17, 57704),

Gene: Delylah_112 Start: 57036, Stop: 57266, Start Num: 6

Candidate Starts for Delylah_112:
(Start: 6 @57036 has 191 MA's), (11, 57183), (14, 57213), (17, 57243),

Gene: Demodog_116 Start: 59542, Stop: 59772, Start Num: 6
Candidate Starts for Demodog_116:
(Start: 6 @59542 has 191 MA's), (11, 59689), (14, 59719), (17, 59749),

Gene: Derek_109 Start: 56962, Stop: 57192, Start Num: 6
Candidate Starts for Derek_109:
(Start: 6 @56962 has 191 MA's), (11, 57109), (14, 57139), (17, 57169),

Gene: Dessert_109 Start: 55438, Stop: 55668, Start Num: 6
Candidate Starts for Dessert_109:
(Start: 6 @55438 has 191 MA's), (11, 55585), (14, 55615), (17, 55645),

Gene: Dietrick_101 Start: 55038, Stop: 55268, Start Num: 6
Candidate Starts for Dietrick_101:
(Start: 6 @55038 has 191 MA's), (11, 55185), (14, 55215), (17, 55245),

Gene: DirtMonster_103 Start: 56296, Stop: 56526, Start Num: 6
Candidate Starts for DirtMonster_103:
(Start: 6 @56296 has 191 MA's), (11, 56443), (14, 56473), (17, 56503),

Gene: Domi_103 Start: 56384, Stop: 56614, Start Num: 6
Candidate Starts for Domi_103:
(Start: 6 @56384 has 191 MA's), (11, 56531), (14, 56561), (17, 56591),

Gene: DrPhinkDaddy_108 Start: 57565, Stop: 57795, Start Num: 6
Candidate Starts for DrPhinkDaddy_108:
(Start: 6 @57565 has 191 MA's), (11, 57712), (14, 57742), (17, 57772),

Gene: Drazdys_108 Start: 56026, Stop: 56256, Start Num: 6
Candidate Starts for Drazdys_108:
(Start: 6 @56026 has 191 MA's), (11, 56173), (14, 56203), (17, 56233),

Gene: Duckfeet_102 Start: 55487, Stop: 55717, Start Num: 6
Candidate Starts for Duckfeet_102:
(Start: 6 @55487 has 191 MA's), (11, 55634), (14, 55664), (17, 55694),

Gene: ET08_98 Start: 56026, Stop: 56256, Start Num: 6
Candidate Starts for ET08_98:
(Start: 6 @56026 has 191 MA's), (11, 56173), (14, 56203), (17, 56233),

Gene: EasyJones_111 Start: 56167, Stop: 56397, Start Num: 6
Candidate Starts for EasyJones_111:
(Start: 6 @56167 has 191 MA's), (11, 56314), (14, 56344), (17, 56374),

Gene: EggyFarm_117 Start: 59301, Stop: 59531, Start Num: 6
Candidate Starts for EggyFarm_117:
(Start: 6 @59301 has 191 MA's), (11, 59448), (14, 59478), (17, 59508),

Gene: EmToTheThree_111 Start: 58304, Stop: 58534, Start Num: 6
Candidate Starts for EmToTheThree_111:

(Start: 6 @58304 has 191 MA's), (11, 58451), (14, 58481), (17, 58511),

Gene: EmmaElysia_109 Start: 56091, Stop: 56321, Start Num: 6
Candidate Starts for EmmaElysia_109:
(Start: 6 @56091 has 191 MA's), (11, 56238), (14, 56268), (17, 56298),

Gene: Erdmann_110 Start: 57344, Stop: 57574, Start Num: 6
Candidate Starts for Erdmann_110:
(Start: 6 @57344 has 191 MA's), (11, 57491), (14, 57521), (17, 57551),

Gene: ErnieJ_104 Start: 55298, Stop: 55528, Start Num: 6
Candidate Starts for ErnieJ_104:
(Start: 6 @55298 has 191 MA's), (11, 55445), (14, 55475), (17, 55505),

Gene: Essence_106 Start: 56192, Stop: 56422, Start Num: 6
Candidate Starts for Essence_106:
(Start: 6 @56192 has 191 MA's), (11, 56339), (14, 56369), (17, 56399),

Gene: Ewok_110 Start: 56731, Stop: 56961, Start Num: 6
Candidate Starts for Ewok_110:
(Start: 6 @56731 has 191 MA's), (11, 56878), (14, 56908), (17, 56938),

Gene: Fixie_102 Start: 55984, Stop: 56214, Start Num: 6
Candidate Starts for Fixie_102:
(Start: 6 @55984 has 191 MA's), (11, 56131), (14, 56161), (17, 56191),

Gene: Flabslab_103 Start: 54423, Stop: 54653, Start Num: 6
Candidate Starts for Flabslab_103:
(Start: 6 @54423 has 191 MA's), (11, 54570), (14, 54600), (17, 54630),

Gene: Fludd_109 Start: 55938, Stop: 56168, Start Num: 6
Candidate Starts for Fludd_109:
(Start: 6 @55938 has 191 MA's), (11, 56085), (14, 56115), (17, 56145),

Gene: Fongie_107 Start: 56944, Stop: 57174, Start Num: 6
Candidate Starts for Fongie_107:
(Start: 6 @56944 has 191 MA's), (11, 57091), (14, 57121), (17, 57151),

Gene: FoxtrotP1_109 Start: 58514, Stop: 58744, Start Num: 6
Candidate Starts for FoxtrotP1_109:
(Start: 6 @58514 has 191 MA's), (11, 58661), (14, 58691), (17, 58721),

Gene: FrayBell_114 Start: 57678, Stop: 57908, Start Num: 6
Candidate Starts for FrayBell_114:
(Start: 6 @57678 has 191 MA's), (11, 57825), (14, 57855), (17, 57885),

Gene: FudgeTart_108 Start: 56372, Stop: 56602, Start Num: 6
Candidate Starts for FudgeTart_108:
(Start: 6 @56372 has 191 MA's), (11, 56519), (14, 56549), (17, 56579),

Gene: Gabriel_110 Start: 55598, Stop: 55828, Start Num: 6
Candidate Starts for Gabriel_110:
(Start: 6 @55598 has 191 MA's), (11, 55745), (14, 55775), (17, 55805),

Gene: Gamgam_109 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for Gamgam_109:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: Ghost_108 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for Ghost_108:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: Gizmo_113 Start: 58494, Stop: 58724, Start Num: 6
Candidate Starts for Gizmo_113:
(Start: 6 @58494 has 191 MA's), (11, 58641), (14, 58671), (17, 58701),

Gene: GlutenPhree_110 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for GlutenPhree_110:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: GoldenSnow_113 Start: 57677, Stop: 57907, Start Num: 6
Candidate Starts for GoldenSnow_113:
(Start: 6 @57677 has 191 MA's), (11, 57824), (14, 57854), (17, 57884),

Gene: Grasshills_116 Start: 59301, Stop: 59531, Start Num: 6
Candidate Starts for Grasshills_116:
(Start: 6 @59301 has 191 MA's), (11, 59448), (14, 59478), (17, 59508),

Gene: Greely_108 Start: 55034, Stop: 55237, Start Num: 7
Candidate Starts for Greely_108:
(Start: 7 @55034 has 3 MA's), (9, 55091), (10, 55094), (16, 55196), (17, 55217),

Gene: Grungle_97 Start: 53615, Stop: 53845, Start Num: 6
Candidate Starts for Grungle_97:
(Start: 6 @53615 has 191 MA's), (11, 53762), (14, 53792), (17, 53822),

Gene: Guwapp_108 Start: 55763, Stop: 55993, Start Num: 6
Candidate Starts for Guwapp_108:
(Start: 6 @55763 has 191 MA's), (11, 55910), (14, 55940), (17, 55970),

Gene: Halldule_103 Start: 54641, Stop: 54871, Start Num: 6
Candidate Starts for Halldule_103:
(Start: 6 @54641 has 191 MA's), (11, 54788), (14, 54818), (17, 54848),

Gene: HyRo_100 Start: 55868, Stop: 56098, Start Num: 6
Candidate Starts for HyRo_100:
(Start: 6 @55868 has 191 MA's), (11, 56015), (14, 56045), (17, 56075),

Gene: I3_114 Start: 57829, Stop: 58059, Start Num: 6
Candidate Starts for I3_114:
(Start: 6 @57829 has 191 MA's), (11, 57976), (14, 58006), (17, 58036),

Gene: IkeLoa_102 Start: 55698, Stop: 55928, Start Num: 6
Candidate Starts for IkeLoa_102:
(Start: 6 @55698 has 191 MA's), (11, 55845), (14, 55875), (17, 55905),

Gene: InigoMontoya_110 Start: 55833, Stop: 56063, Start Num: 6
Candidate Starts for InigoMontoya_110:
(Start: 6 @55833 has 191 MA's), (11, 55980), (14, 56010), (17, 56040),

Gene: Iota_104 Start: 56309, Stop: 56539, Start Num: 6
Candidate Starts for Iota_104:
(Start: 6 @56309 has 191 MA's), (11, 56456), (14, 56486), (17, 56516),

Gene: Issimir_108 Start: 57318, Stop: 57548, Start Num: 6
Candidate Starts for Issimir_108:
(Start: 6 @57318 has 191 MA's), (11, 57465), (14, 57495), (17, 57525),

Gene: Izajani_109 Start: 57524, Stop: 57754, Start Num: 6
Candidate Starts for Izajani_109:
(Start: 6 @57524 has 191 MA's), (11, 57671), (14, 57701), (17, 57731),

Gene: JPickles_107 Start: 55103, Stop: 55333, Start Num: 6
Candidate Starts for JPickles_107:
(Start: 6 @55103 has 191 MA's), (11, 55250), (14, 55280), (17, 55310),

Gene: Janiyra_111 Start: 56799, Stop: 57029, Start Num: 6
Candidate Starts for Janiyra_111:
(Start: 6 @56799 has 191 MA's), (11, 56946), (14, 56976), (17, 57006),

Gene: JayJay_114 Start: 58308, Stop: 58538, Start Num: 6
Candidate Starts for JayJay_114:
(Start: 6 @58308 has 191 MA's), (11, 58455), (14, 58485), (17, 58515),

Gene: Jaygup_109 Start: 56628, Stop: 56858, Start Num: 6
Candidate Starts for Jaygup_109:
(Start: 6 @56628 has 191 MA's), (11, 56775), (14, 56805), (17, 56835),

Gene: Jedediah_112 Start: 57161, Stop: 57391, Start Num: 6
Candidate Starts for Jedediah_112:
(Start: 6 @57161 has 191 MA's), (11, 57308), (14, 57338), (17, 57368),

Gene: Jemmno_109 Start: 56608, Stop: 56838, Start Num: 6
Candidate Starts for Jemmno_109:
(Start: 6 @56608 has 191 MA's), (11, 56755), (14, 56785), (17, 56815),

Gene: Jessibeth14_108 Start: 57129, Stop: 57359, Start Num: 6
Candidate Starts for Jessibeth14_108:
(Start: 6 @57129 has 191 MA's), (11, 57276), (14, 57306), (17, 57336),

Gene: Jezreel_109 Start: 57292, Stop: 57522, Start Num: 6
Candidate Starts for Jezreel_109:
(Start: 6 @57292 has 191 MA's), (11, 57439), (14, 57469), (17, 57499),

Gene: JigglyPuff_117 Start: 59458, Stop: 59688, Start Num: 6
Candidate Starts for JigglyPuff_117:
(Start: 6 @59458 has 191 MA's), (11, 59605), (14, 59635), (17, 59665),

Gene: JulietS_103 Start: 54494, Stop: 54724, Start Num: 6

Candidate Starts for JulietS_103:
(Start: 6 @54494 has 191 MA's), (11, 54641), (14, 54671), (17, 54701),

Gene: JustHall_106 Start: 56667, Stop: 56897, Start Num: 6
Candidate Starts for JustHall_106:
(Start: 6 @56667 has 191 MA's), (11, 56814), (14, 56844), (17, 56874),

Gene: Kamryn_109 Start: 57944, Stop: 58174, Start Num: 6
Candidate Starts for Kamryn_109:
(Start: 6 @57944 has 191 MA's), (11, 58091), (14, 58121), (17, 58151),

Gene: Kboogie_113 Start: 56300, Stop: 56530, Start Num: 6
Candidate Starts for Kboogie_113:
(Start: 6 @56300 has 191 MA's), (11, 56447), (14, 56477), (17, 56507),

Gene: Khaleesi_108 Start: 57243, Stop: 57473, Start Num: 6
Candidate Starts for Khaleesi_108:
(Start: 6 @57243 has 191 MA's), (11, 57390), (14, 57420), (17, 57450),

Gene: Koguma_106 Start: 54788, Stop: 55018, Start Num: 6
Candidate Starts for Koguma_106:
(Start: 6 @54788 has 191 MA's), (11, 54935), (14, 54965), (17, 54995),

Gene: LRRHood_103 Start: 56586, Stop: 56816, Start Num: 6
Candidate Starts for LRRHood_103:
(Start: 6 @56586 has 191 MA's), (11, 56733), (14, 56763), (17, 56793),

Gene: Labradorite_110 Start: 55325, Stop: 55555, Start Num: 6
Candidate Starts for Labradorite_110:
(Start: 6 @55325 has 191 MA's), (11, 55472), (14, 55502), (17, 55532),

Gene: Latch_109 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for Latch_109:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: Lee7_112 Start: 57877, Stop: 58107, Start Num: 6
Candidate Starts for Lee7_112:
(Start: 6 @57877 has 191 MA's), (11, 58024), (14, 58054), (17, 58084),

Gene: Lethe_108 Start: 57315, Stop: 57545, Start Num: 6
Candidate Starts for Lethe_108:
(Start: 6 @57315 has 191 MA's), (11, 57462), (14, 57492), (17, 57522),

Gene: LifeSavor_108 Start: 56560, Stop: 56790, Start Num: 6
Candidate Starts for LifeSavor_108:
(Start: 6 @56560 has 191 MA's), (11, 56707), (14, 56737), (17, 56767),

Gene: LinStu_108 Start: 57194, Stop: 57424, Start Num: 6
Candidate Starts for LinStu_108:
(Start: 6 @57194 has 191 MA's), (11, 57341), (14, 57371), (17, 57401),

Gene: Littleton_109 Start: 56689, Stop: 56919, Start Num: 6
Candidate Starts for Littleton_109:

(Start: 6 @56689 has 191 MA's), (11, 56836), (14, 56866), (17, 56896),

Gene: Loanshark_108 Start: 57211, Stop: 57441, Start Num: 6
Candidate Starts for Loanshark_108:
(Start: 6 @57211 has 191 MA's), (11, 57358), (14, 57388), (17, 57418),

Gene: LolaVinca_110 Start: 57563, Stop: 57793, Start Num: 6
Candidate Starts for LolaVinca_110:
(Start: 6 @57563 has 191 MA's), (11, 57710), (14, 57740), (17, 57770),

Gene: LookingGlass_110 Start: 57387, Stop: 57617, Start Num: 6
Candidate Starts for LookingGlass_110:
(Start: 6 @57387 has 191 MA's), (11, 57534), (14, 57564), (17, 57594),

Gene: LordLeafolot_114 Start: 58530, Stop: 58760, Start Num: 6
Candidate Starts for LordLeafolot_114:
(Start: 6 @58530 has 191 MA's), (11, 58677), (14, 58707), (17, 58737),

Gene: Lukilu_100 Start: 56976, Stop: 57206, Start Num: 6
Candidate Starts for Lukilu_100:
(Start: 6 @56976 has 191 MA's), (11, 57123), (14, 57153), (17, 57183),

Gene: Lunareta_108 Start: 58483, Stop: 58713, Start Num: 6
Candidate Starts for Lunareta_108:
(Start: 6 @58483 has 191 MA's), (11, 58630), (14, 58660), (17, 58690),

Gene: Maby2021_109 Start: 57337, Stop: 57567, Start Num: 6
Candidate Starts for Maby2021_109:
(Start: 6 @57337 has 191 MA's), (11, 57484), (14, 57514), (17, 57544),

Gene: Maguvora_114 Start: 57917, Stop: 58147, Start Num: 6
Candidate Starts for Maguvora_114:
(Start: 6 @57917 has 191 MA's), (11, 58064), (14, 58094), (17, 58124),

Gene: Mangeria_109 Start: 57406, Stop: 57636, Start Num: 6
Candidate Starts for Mangeria_109:
(Start: 6 @57406 has 191 MA's), (11, 57553), (14, 57583), (17, 57613),

Gene: Matsumoto_107 Start: 56188, Stop: 56418, Start Num: 6
Candidate Starts for Matsumoto_107:
(Start: 6 @56188 has 191 MA's), (11, 56335), (14, 56365), (17, 56395),

Gene: Maturis_107 Start: 56979, Stop: 57209, Start Num: 6
Candidate Starts for Maturis_107:
(Start: 6 @56979 has 191 MA's), (11, 57126), (14, 57156), (17, 57186),

Gene: McGee_111 Start: 55941, Stop: 56171, Start Num: 6
Candidate Starts for McGee_111:
(Start: 6 @55941 has 191 MA's), (11, 56088), (14, 56118), (17, 56148),

Gene: McWolfish_107 Start: 57126, Stop: 57356, Start Num: 6
Candidate Starts for McWolfish_107:
(Start: 6 @57126 has 191 MA's), (11, 57273), (14, 57303), (17, 57333),

Gene: Megamind_108 Start: 57010, Stop: 57240, Start Num: 6
Candidate Starts for Megamind_108:
(Start: 6 @57010 has 191 MA's), (11, 57157), (14, 57187), (17, 57217),

Gene: Melpomini_103 Start: 54476, Stop: 54706, Start Num: 6
Candidate Starts for Melpomini_103:
(Start: 6 @54476 has 191 MA's), (11, 54623), (14, 54653), (17, 54683),

Gene: MikeLiesIn_110 Start: 57357, Stop: 57587, Start Num: 6
Candidate Starts for MikeLiesIn_110:
(Start: 6 @57357 has 191 MA's), (11, 57504), (14, 57534), (17, 57564),

Gene: Mikro_107 Start: 58579, Stop: 58809, Start Num: 6
Candidate Starts for Mikro_107:
(Start: 6 @58579 has 191 MA's), (11, 58726), (14, 58756), (17, 58786),

Gene: MoMoMixon_110 Start: 56833, Stop: 57063, Start Num: 6
Candidate Starts for MoMoMixon_110:
(Start: 6 @56833 has 191 MA's), (11, 56980), (14, 57010), (17, 57040),

Gene: Moby_100 Start: 53745, Stop: 53975, Start Num: 6
Candidate Starts for Moby_100:
(Start: 6 @53745 has 191 MA's), (11, 53892), (14, 53922), (17, 53952),

Gene: Moiqah_100 Start: 53745, Stop: 53975, Start Num: 6
Candidate Starts for Moiqah_100:
(Start: 6 @53745 has 191 MA's), (11, 53892), (14, 53922), (17, 53952),

Gene: Momo_108 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for Momo_108:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: Montpel_108 Start: 58481, Stop: 58711, Start Num: 6
Candidate Starts for Montpel_108:
(Start: 6 @58481 has 191 MA's), (11, 58628), (14, 58658), (17, 58688),

Gene: Morizzled23_109 Start: 56237, Stop: 56467, Start Num: 6
Candidate Starts for Morizzled23_109:
(Start: 6 @56237 has 191 MA's), (11, 56384), (14, 56414), (17, 56444),

Gene: Myrna_106 Start: 55990, Stop: 56193, Start Num: 7
Candidate Starts for Myrna_106:
(Start: 7 @55990 has 3 MA's), (8, 55996), (9, 56047), (10, 56050), (11, 56113), (15, 56149), (17, 56173),

Gene: Naija_108 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for Naija_108:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: Napoleon13_105 Start: 54914, Stop: 55144, Start Num: 6
Candidate Starts for Napoleon13_105:
(Start: 6 @54914 has 191 MA's), (11, 55061), (14, 55091), (17, 55121),

Gene: Nappy_112 Start: 58267, Stop: 58497, Start Num: 6
Candidate Starts for Nappy_112:
(Start: 6 @58267 has 191 MA's), (11, 58414), (14, 58444), (17, 58474),

Gene: Naval22_117 Start: 58800, Stop: 59030, Start Num: 6
Candidate Starts for Naval22_117:
(Start: 6 @58800 has 191 MA's), (11, 58947), (14, 58977), (17, 59007),

Gene: NedWong_110 Start: 57344, Stop: 57574, Start Num: 6
Candidate Starts for NedWong_110:
(Start: 6 @57344 has 191 MA's), (11, 57491), (14, 57521), (17, 57551),

Gene: Ngannou_105 Start: 54854, Stop: 55084, Start Num: 6
Candidate Starts for Ngannou_105:
(Start: 6 @54854 has 191 MA's), (11, 55001), (14, 55031), (17, 55061),

Gene: Nidhogg_110 Start: 57078, Stop: 57308, Start Num: 6
Candidate Starts for Nidhogg_110:
(Start: 6 @57078 has 191 MA's), (11, 57225), (14, 57255), (17, 57285),

Gene: NoodleTree_116 Start: 57436, Stop: 57666, Start Num: 6
Candidate Starts for NoodleTree_116:
(Start: 6 @57436 has 191 MA's), (11, 57583), (14, 57613), (17, 57643),

Gene: Norm_110 Start: 58039, Stop: 58269, Start Num: 6
Candidate Starts for Norm_110:
(Start: 6 @58039 has 191 MA's), (11, 58186), (14, 58216), (17, 58246),

Gene: NuevoMundo_115 Start: 59618, Stop: 59848, Start Num: 6
Candidate Starts for NuevoMundo_115:
(Start: 6 @59618 has 191 MA's), (11, 59765), (14, 59795), (17, 59825),

Gene: OrediggerDelux_112 Start: 57874, Stop: 58104, Start Num: 6
Candidate Starts for OrediggerDelux_112:
(Start: 6 @57874 has 191 MA's), (11, 58021), (14, 58051), (17, 58081),

Gene: ParkTD_110 Start: 57340, Stop: 57570, Start Num: 6
Candidate Starts for ParkTD_110:
(Start: 6 @57340 has 191 MA's), (11, 57487), (14, 57517), (17, 57547),

Gene: Patter_109 Start: 55889, Stop: 56119, Start Num: 6
Candidate Starts for Patter_109:
(Start: 6 @55889 has 191 MA's), (11, 56036), (14, 56066), (17, 56096),

Gene: Phabba_110 Start: 54786, Stop: 54989, Start Num: 7
Candidate Starts for Phabba_110:
(Start: 7 @54786 has 3 MA's), (8, 54792), (9, 54843), (10, 54846), (12, 54927), (16, 54948), (17, 54969),

Gene: PharkleMinkus_112 Start: 57678, Stop: 57908, Start Num: 6
Candidate Starts for PharkleMinkus_112:
(Start: 6 @57678 has 191 MA's), (11, 57825), (14, 57855), (17, 57885),

Gene: Phlegm_111 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for Phlegm_111:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: Phox_106 Start: 57620, Stop: 57850, Start Num: 6
Candidate Starts for Phox_106:
(Start: 6 @57620 has 191 MA's), (11, 57767), (14, 57797), (17, 57827),

Gene: Phusco_109 Start: 56637, Stop: 56867, Start Num: 6
Candidate Starts for Phusco_109:
(Start: 6 @56637 has 191 MA's), (11, 56784), (14, 56814), (17, 56844),

Gene: Pier_114 Start: 59626, Stop: 59856, Start Num: 6
Candidate Starts for Pier_114:
(Start: 6 @59626 has 191 MA's), (11, 59773), (14, 59803), (17, 59833),

Gene: Pinkcreek_100 Start: 54960, Stop: 55190, Start Num: 6
Candidate Starts for Pinkcreek_100:
(Start: 6 @54960 has 191 MA's), (11, 55107), (14, 55137), (17, 55167),

Gene: Pio_113 Start: 59230, Stop: 59460, Start Num: 6
Candidate Starts for Pio_113:
(Start: 6 @59230 has 191 MA's), (11, 59377), (14, 59407), (17, 59437),

Gene: Pivoine_108 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for Pivoine_108:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: Pleione_112 Start: 57507, Stop: 57737, Start Num: 6
Candidate Starts for Pleione_112:
(Start: 6 @57507 has 191 MA's), (11, 57654), (14, 57684), (17, 57714),

Gene: Primadonna_103 Start: 56002, Stop: 56232, Start Num: 6
Candidate Starts for Primadonna_103:
(Start: 6 @56002 has 191 MA's), (11, 56149), (14, 56179), (17, 56209),

Gene: Puhon_113 Start: 57865, Stop: 58095, Start Num: 6
Candidate Starts for Puhon_113:
(Start: 6 @57865 has 191 MA's), (11, 58012), (14, 58042), (17, 58072),

Gene: Pupusa_115 Start: 58719, Stop: 58949, Start Num: 6
Candidate Starts for Pupusa_115:
(Start: 6 @58719 has 191 MA's), (11, 58866), (14, 58896), (17, 58926),

Gene: PurduePete_109 Start: 57764, Stop: 57994, Start Num: 6
Candidate Starts for PurduePete_109:
(Start: 6 @57764 has 191 MA's), (11, 57911), (14, 57941), (17, 57971),

Gene: QBert_103 Start: 56343, Stop: 56573, Start Num: 6
Candidate Starts for QBert_103:
(Start: 6 @56343 has 191 MA's), (11, 56490), (14, 56520), (17, 56550),

Gene: Quasimodo_110 Start: 57299, Stop: 57529, Start Num: 6
Candidate Starts for Quasimodo_110:
(Start: 6 @57299 has 191 MA's), (11, 57446), (14, 57476), (17, 57506),

Gene: Rabinovish_107 Start: 57536, Stop: 57766, Start Num: 6
Candidate Starts for Rabinovish_107:
(Start: 6 @57536 has 191 MA's), (11, 57683), (14, 57713), (17, 57743),

Gene: Rahel_108 Start: 56229, Stop: 56459, Start Num: 6
Candidate Starts for Rahel_108:
(Start: 6 @56229 has 191 MA's), (11, 56376), (14, 56406), (17, 56436),

Gene: Rizal_105 Start: 55377, Stop: 55607, Start Num: 6
Candidate Starts for Rizal_105:
(Start: 6 @55377 has 191 MA's), (11, 55524), (14, 55554), (17, 55584),

Gene: RoMag_104 Start: 56549, Stop: 56779, Start Num: 6
Candidate Starts for RoMag_104:
(Start: 6 @56549 has 191 MA's), (11, 56696), (14, 56726), (17, 56756),

Gene: Rocha_108 Start: 56802, Stop: 57032, Start Num: 6
Candidate Starts for Rocha_108:
(Start: 6 @56802 has 191 MA's), (11, 56949), (14, 56979), (17, 57009),

Gene: Ronan_103 Start: 54500, Stop: 54730, Start Num: 6
Candidate Starts for Ronan_103:
(Start: 6 @54500 has 191 MA's), (11, 54647), (14, 54677), (17, 54707),

Gene: Roots515_108 Start: 57537, Stop: 57767, Start Num: 6
Candidate Starts for Roots515_108:
(Start: 6 @57537 has 191 MA's), (11, 57684), (14, 57714), (17, 57744),

Gene: SVoro_107 Start: 57714, Stop: 57944, Start Num: 6
Candidate Starts for SVoro_107:
(Start: 6 @57714 has 191 MA's), (11, 57861), (14, 57891), (17, 57921),

Gene: Salacia_113 Start: 57678, Stop: 57908, Start Num: 6
Candidate Starts for Salacia_113:
(Start: 6 @57678 has 191 MA's), (11, 57825), (14, 57855), (17, 57885),

Gene: Sauce_109 Start: 56284, Stop: 56514, Start Num: 6
Candidate Starts for Sauce_109:
(Start: 6 @56284 has 191 MA's), (11, 56431), (14, 56461), (17, 56491),

Gene: ScoobyDoobyDoo_101 Start: 54368, Stop: 54574, Start Num: 7
Candidate Starts for ScoobyDoobyDoo_101:
(Start: 7 @54368 has 3 MA's), (9, 54425), (10, 54428), (15, 54527),

Gene: ScottMcG_106 Start: 56299, Stop: 56529, Start Num: 6
Candidate Starts for ScottMcG_106:
(Start: 6 @56299 has 191 MA's), (11, 56446), (14, 56476), (17, 56506),

Gene: Sebata_110 Start: 57753, Stop: 57983, Start Num: 6

Candidate Starts for Sebata_110:
(Start: 6 @57753 has 191 MA's), (11, 57900), (14, 57930), (17, 57960),

Gene: Shaqnato_102 Start: 55343, Stop: 55573, Start Num: 6
Candidate Starts for Shaqnato_102:
(Start: 6 @55343 has 191 MA's), (11, 55490), (14, 55520), (17, 55550),

Gene: Shelob_111 Start: 58125, Stop: 58355, Start Num: 6
Candidate Starts for Shelob_111:
(Start: 6 @58125 has 191 MA's), (11, 58272), (14, 58302), (17, 58332),

Gene: ShiaLabeouf_108 Start: 56664, Stop: 56894, Start Num: 6
Candidate Starts for ShiaLabeouf_108:
(Start: 6 @56664 has 191 MA's), (11, 56811), (14, 56841), (17, 56871),

Gene: Shifa_97 Start: 55134, Stop: 55364, Start Num: 6
Candidate Starts for Shifa_97:
(Start: 6 @55134 has 191 MA's), (11, 55281), (14, 55311), (17, 55341),

Gene: Shnickers_109 Start: 56628, Stop: 56858, Start Num: 6
Candidate Starts for Shnickers_109:
(Start: 6 @56628 has 191 MA's), (11, 56775), (14, 56805), (17, 56835),

Gene: Shrimp_109 Start: 57348, Stop: 57578, Start Num: 6
Candidate Starts for Shrimp_109:
(Start: 6 @57348 has 191 MA's), (11, 57495), (14, 57525), (17, 57555),

Gene: SilverDipper_110 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for SilverDipper_110:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: SiwenD96_111 Start: 57805, Stop: 58035, Start Num: 6
Candidate Starts for SiwenD96_111:
(Start: 6 @57805 has 191 MA's), (11, 57952), (14, 57982), (17, 58012),

Gene: SmallFry_109 Start: 55853, Stop: 56083, Start Num: 6
Candidate Starts for SmallFry_109:
(Start: 6 @55853 has 191 MA's), (11, 56000), (14, 56030), (17, 56060),

Gene: SoilZilla_105 Start: 56627, Stop: 56857, Start Num: 6
Candidate Starts for SoilZilla_105:
(Start: 6 @56627 has 191 MA's), (11, 56774), (14, 56804), (17, 56834),

Gene: Spec_106 Start: 56393, Stop: 56623, Start Num: 6
Candidate Starts for Spec_106:
(Start: 6 @56393 has 191 MA's), (11, 56540), (14, 56570), (17, 56600),

Gene: Specks_114 Start: 58527, Stop: 58757, Start Num: 6
Candidate Starts for Specks_114:
(Start: 6 @58527 has 191 MA's), (11, 58674), (14, 58704), (17, 58734),

Gene: Sprinklers_105 Start: 55909, Stop: 56139, Start Num: 6
Candidate Starts for Sprinklers_105:

(Start: 6 @55909 has 191 MA's), (11, 56056), (14, 56086), (17, 56116),

Gene: Spud_109 Start: 57424, Stop: 57654, Start Num: 6
Candidate Starts for Spud_109:
(Start: 6 @57424 has 191 MA's), (11, 57571), (14, 57601), (17, 57631),

Gene: SrishMeg2525_108 Start: 57446, Stop: 57676, Start Num: 6
Candidate Starts for SrishMeg2525_108:
(Start: 6 @57446 has 191 MA's), (11, 57593), (14, 57623), (17, 57653),

Gene: StephanieG_108 Start: 58254, Stop: 58484, Start Num: 6
Candidate Starts for StephanieG_108:
(Start: 6 @58254 has 191 MA's), (11, 58401), (14, 58431), (17, 58461),

Gene: Stubby_101 Start: 55450, Stop: 55680, Start Num: 6
Candidate Starts for Stubby_101:
(Start: 6 @55450 has 191 MA's), (11, 55597), (14, 55627), (17, 55657),

Gene: StubbySaigey_112 Start: 56041, Stop: 56271, Start Num: 6
Candidate Starts for StubbySaigey_112:
(Start: 6 @56041 has 191 MA's), (11, 56188), (14, 56218), (17, 56248),

Gene: Substance289_107 Start: 56146, Stop: 56376, Start Num: 6
Candidate Starts for Substance289_107:
(Start: 6 @56146 has 191 MA's), (11, 56293), (14, 56323), (17, 56353),

Gene: Tainan_113 Start: 57850, Stop: 58080, Start Num: 6
Candidate Starts for Tainan_113:
(Start: 6 @57850 has 191 MA's), (11, 57997), (14, 58027), (17, 58057),

Gene: Teardrop_108 Start: 55851, Stop: 56081, Start Num: 6
Candidate Starts for Teardrop_108:
(Start: 6 @55851 has 191 MA's), (11, 55998), (14, 56028), (17, 56058),

Gene: TinyTim_109 Start: 57104, Stop: 57334, Start Num: 6
Candidate Starts for TinyTim_109:
(Start: 6 @57104 has 191 MA's), (11, 57251), (14, 57281), (17, 57311),

Gene: Tonenili_124 Start: 60562, Stop: 60807, Start Num: 6
Candidate Starts for Tonenili_124:
(1, 60043), (2, 60049), (3, 60130), (4, 60274), (5, 60310), (Start: 6 @60562 has 191 MA's), (10, 60646), (11, 60709), (13, 60733), (17, 60769),

Gene: Tortoise16_106 Start: 56452, Stop: 56682, Start Num: 6
Candidate Starts for Tortoise16_106:
(Start: 6 @56452 has 191 MA's), (11, 56599), (14, 56629), (17, 56659),

Gene: Trinitium_106 Start: 55807, Stop: 56037, Start Num: 6
Candidate Starts for Trinitium_106:
(Start: 6 @55807 has 191 MA's), (11, 55954), (14, 55984), (17, 56014),

Gene: Turret_104 Start: 55252, Stop: 55482, Start Num: 6
Candidate Starts for Turret_104:

(Start: 6 @55252 has 191 MA's), (11, 55399), (14, 55429), (17, 55459),

Gene: Tyke_110 Start: 57759, Stop: 57989, Start Num: 6
Candidate Starts for Tyke_110:
(Start: 6 @57759 has 191 MA's), (11, 57906), (14, 57936), (17, 57966),

Gene: ValleyTerrace_109 Start: 55872, Stop: 56102, Start Num: 6
Candidate Starts for ValleyTerrace_109:
(Start: 6 @55872 has 191 MA's), (11, 56019), (14, 56049), (17, 56079),

Gene: Vortrix_123 Start: 59878, Stop: 60123, Start Num: 6
Candidate Starts for Vortrix_123:
(1, 59359), (2, 59365), (3, 59446), (4, 59590), (5, 59626), (Start: 6 @59878 has 191 MA's), (10, 59962), (11, 60025), (13, 60049), (17, 60085),

Gene: Wally_108 Start: 55882, Stop: 56112, Start Num: 6
Candidate Starts for Wally_108:
(Start: 6 @55882 has 191 MA's), (11, 56029), (14, 56059), (17, 56089),

Gene: Willis_110 Start: 57239, Stop: 57469, Start Num: 6
Candidate Starts for Willis_110:
(Start: 6 @57239 has 191 MA's), (11, 57386), (14, 57416), (17, 57446),

Gene: Yassified_106 Start: 55959, Stop: 56189, Start Num: 6
Candidate Starts for Yassified_106:
(Start: 6 @55959 has 191 MA's), (11, 56106), (14, 56136), (17, 56166),

Gene: YemiJoy2021_110 Start: 57341, Stop: 57571, Start Num: 6
Candidate Starts for YemiJoy2021_110:
(Start: 6 @57341 has 191 MA's), (11, 57488), (14, 57518), (17, 57548),

Gene: YoungMoneyMata_110 Start: 56508, Stop: 56738, Start Num: 6
Candidate Starts for YoungMoneyMata_110:
(Start: 6 @56508 has 191 MA's), (11, 56655), (14, 56685), (17, 56715),

Gene: Yucca_109 Start: 57023, Stop: 57253, Start Num: 6
Candidate Starts for Yucca_109:
(Start: 6 @57023 has 191 MA's), (11, 57170), (14, 57200), (17, 57230),

Gene: Zalkecks_110 Start: 57024, Stop: 57254, Start Num: 6
Candidate Starts for Zalkecks_110:
(Start: 6 @57024 has 191 MA's), (11, 57171), (14, 57201), (17, 57231),

Gene: Zeenon_111 Start: 57109, Stop: 57339, Start Num: 6
Candidate Starts for Zeenon_111:
(Start: 6 @57109 has 191 MA's), (11, 57256), (14, 57286), (17, 57316),

Gene: ZygoTaiga_108 Start: 58269, Stop: 58499, Start Num: 6
Candidate Starts for ZygoTaiga_108:
(Start: 6 @58269 has 191 MA's), (11, 58416), (14, 58446), (17, 58476),