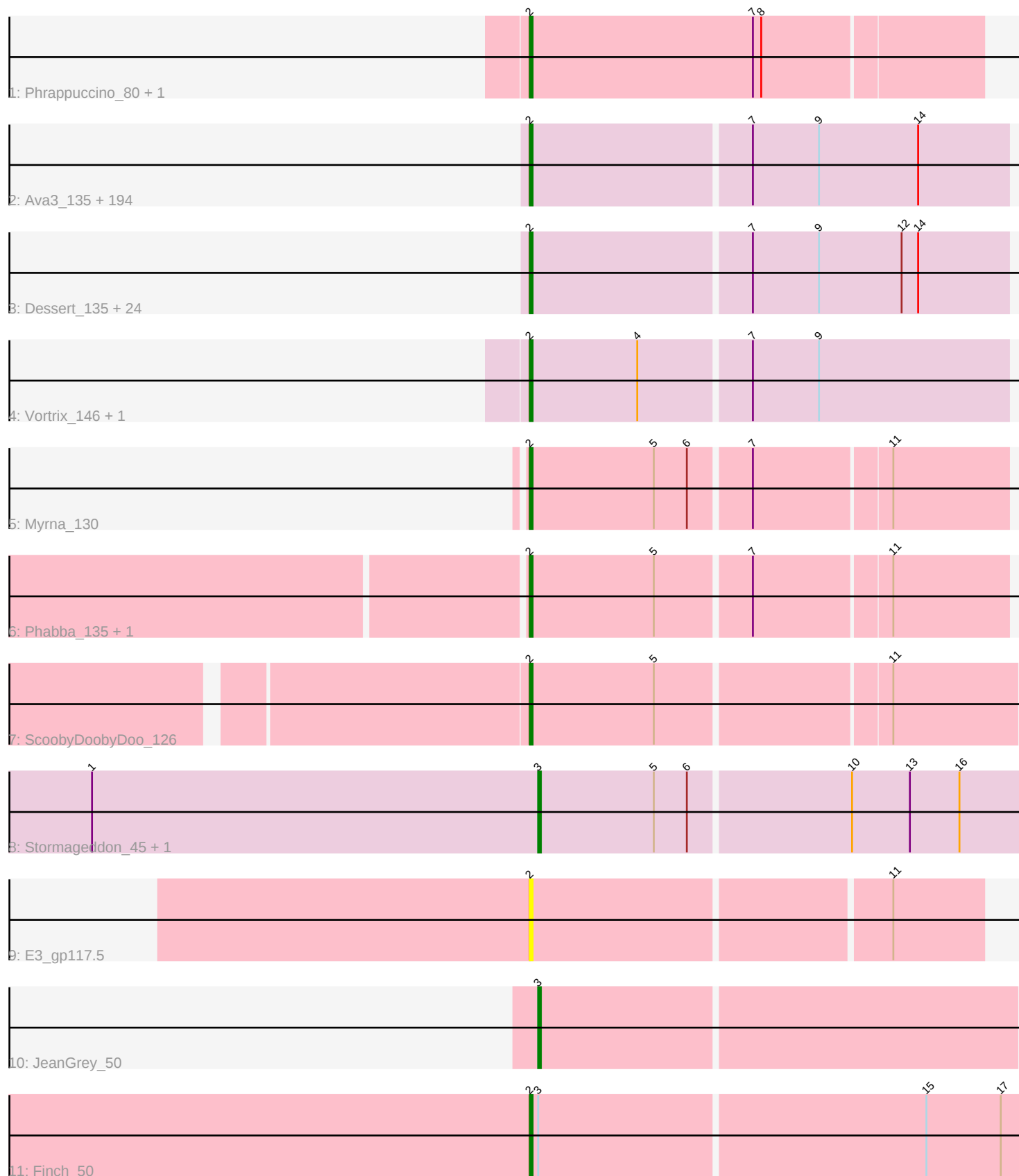


Pham 322873



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 322873 Report

This analysis was run 09/05/26 on database version 662.

Pham number 322873 has 233 members, 33 are drafts.

Phages represented in each track:

- Track 1 : Phrappuccino_80, Settecandela_80
- Track 2 : Ava3_135, ArcherS7_133, EasyJones_137, EggyFarm_142, Delilah_134, FudgeTart_132, Tota_129, Maby2021_134, QBert_128, Grungle_121, Sprinklers_130, Halldule_128, Dandelion_139, BananaFence_133, Moby_127, Yucca_133, Domi_127, Cali_129, Wally_133, EmToTheThree_136, SiwenD96_135, Chargie21_131, Demodog_141, LookingGlass_134, BeanWater_126, TinyTim_134, McGee_136, NoodleTree_141, EmmaElysia_135, Montpel_133, DirtMonster_128, Mangeria_134, Tyke_134, BackyardAgain_131, Trinitium_132, DeejaClivia_121, Maguvora_138, Cactojaque_130, DrPhinkDaddy_133, Cane17_126, Bezza_128, LinStu_132, Pier_138, Ablatia_134, Shnickers_134, Jaygup_134, Bangla1971_135, ScottMcG_130, Jezreel_134, Lukilu_124, Bxz1_131, Flabslab_129, FoxtrotP1_134, JustHall_132, DTDevon_134, Blubba_126, Duckfeet_128, Drazdys_132, LRRHood_127, YoungMoneyMata_136, Kamryn_134, Matsumoto_132, Fongie_132, ET08_122, Khaleesi_133, JigglyPuff_142, Moiqah_126, Jedediah_137, Bowman_136, Issimir_132, ParkTD_135, Specks_139, Concombre_140, ShiaLabeouf_133, Adlitam_135, Lee7_137, CindyLou_136, Bonray_135, IkeLoa_128, Salacia_138, BobaPhatt_131, Nidhogg_136, Grasshills_141, JulietS_128, OrediggerDelux_137, Kboogie_138, Loanshark_133, Lunareta_133, Pleione_137, Gamgam_135, Astraea_130, Alice_127, Ronan_128, Shaqnato_127, Blackbrain_130, GoldenSnow_137, Primadonna_128, Caravan_128, Colt_126, NedWong_135, Sebata_134, ChaylaJr_130, Yassified_131, Bigswole_137, NuevoMundo_139, Erdmann_134, Morizzled23_135, McWolfish_132, JayJay_139, Stubby_127, Labradorite_133, Pio_138, Roots515_133, Pupusa_140, BigCity_142, Guwapp_133, LifeSavor_132, Spec_131, Teardrop_133, Rabinovish_133, Gizmo_139, Tainan_137, Cleatunium_127, Shelob_136, Fludd_135, Burrough_134, Spud_133, ChickenPhender_130, Rizal_129, RoMag_129, Littleton_134, MikeLiesIn_135, Patter_135, Basquiat_131, Mikro_131, Dietrick_126, Naval22_142, Koguma_131, MoMoMixon_134, Babyland_136, SmallFry_134, Ewok_135, LolaVinca_134, Derek_133, Daffodil_139, ZygoTaiga_132, HyRo_125, LordLeafolot_138, Shrimp_134, BadAgartude_130, I3_139, Bipolarisk_133, Norm_135, Puhon_137, Shifa_123, SoilZilla_130, Napoleon13_130, YemiJoy2021_135, Darko_134, Bread_133, Megamind_133, Phusco_134, InterFolia_140, Rahel_133, SVoro_132, Zalkecks_135, Lethe_132, StephanieG_132, Melpomini_128, Rocha_132, Blackdragon_130, Nappy_136, Zeenon_135, Willis_135, Quasimodo_136, Maturis_132, PurduePete_134, Essence_131, Belieber_130, Turret_130, Izajani_134, CharlieB_131, Substance289_132, Sauce_134, SrishMeg2525_133, ErnieJ_128, Jemmno_134, FrayBell_139, Asterius_137, Pinkcreek_125, PharkleMinkus_137,

Catera_130, Jessibeth14_133, Phox_131, Delylah_137
 • Track 3 : Dessert_135, StubbySaigey_138, Momo_134, InigoMontoya_137, Fixie_127, Atlantean_134, Ghost_133, GlutenPhree_136, Ngannou_131, Chomp_134, ValleyTerrace_135, Amataga_135, Pivoine_134, JPickles_131, SilverDipper_136, Capablanca_137, Latch_135, Breeniome_133, Ading_134, Janiyra_137, Phlegm_138, Audrick_137, Gabriel_134, Naija_134, Tortoise16_131
 • Track 4 : Vortex_146, Tonenili_147
 • Track 5 : Myrna_130
 • Track 6 : Phabba_135, Greely_133
 • Track 7 : ScoobyDoobyDoo_126
 • Track 8 : Stormageddon_45, RedWattleHog_48
 • Track 9 : E3_gp117.5
 • Track 10 : JeanGrey_50
 • Track 11 : Finch_50

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 197 of the 200 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Ablatia_134, Ading_134, Adlitam_135, Alice_127, Amataga_135, ArcherS7_133, Asterius_137, Astraea_130, Atlantean_134, Audrick_137, Ava3_135, Babyland_136, BackyardAgain_131, BadAgartude_130, BananaFence_133, Bangla1971_135, Basquiat_131, BeanWater_126, Belieber_130, Bezza_128, BigCity_142, Bigswole_137, Bipolarisk_133, Blackbrain_130, Blackdragon_130, Blubba_126, BobaPhatt_131, Bonray_135, Bowman_136, Bread_133, Breeniome_133, Burrough_134, Bxz1_131, Cactojaque_130, Cali_129, Cane17_126, Capablanca_137, Caravan_128, Catera_130, Chargie21_131, CharlieB_131, ChaylaJr_130, ChickenPhender_130, Chomp_134, CindyLou_136, Cleatunium_127, Colt_126, Concombre_140, DTDevon_134, Daffodil_139, Dandelion_139, Darko_134, DeejaClivia_121, Delilah_134, Delylah_137, Demodog_141, Derek_133, Dessert_135, Dietrick_126, DirtMonster_128, Domi_127, DrPhinkDaddy_133, Drazdys_132, Duckfeet_128, E3_gp117.5, ET08_122, EasyJones_137, EggFarm_142, EmToTheThree_136, EmmaElysia_135, Erdmann_134, ErnieJ_128, Essence_131, Ewok_135, Finch_50, Fixie_127, Flabslab_129, Fludd_135, Fongie_132, FoxtrotP1_134, FrayBell_139, FudgeTart_132, Gabriel_134, Gangam_135, Ghost_133, Gizmo_139, GlutenPhree_136, GoldenSnow_137, Grasshills_141, Greely_133, Grungle_121, Guwapp_133, Halldule_128, HyRo_125, I3_139, IkeLoa_128, InigoMontoya_137, InterFolia_140, Iota_129, Issimir_132, Izajani_134, JPickles_131, Janiyra_137, JayJay_139, Jaygup_134, Jedediah_137, Jemmno_134, Jessibeth14_133, Jezreel_134, JigglyPuff_142, JulietS_128, JustHall_132, Kamryn_134, Kboogie_138, Khaleesi_133, Koguma_131, LRRHood_127, Labradorite_133, Latch_135, Lee7_137, Lethe_132, LifeSavor_132, LinStu_132, Littleton_134, Loanshark_133, LolaVinca_134, LookingGlass_134, LordLeafolot_138, Lukilu_124, Lunareta_133, Maby2021_134, Maguvora_138, Mangeria_134, Matsumoto_132, Maturis_132, McGee_136, McWolfish_132, Megamind_133, Melpomini_128, MikeLiesIn_135, Mikro_131, MoMoMixon_134, Moby_127, Moiqah_126, Momo_134, Montpel_133, Morizzled23_135, Myrna_130, Naija_134, Napoleon13_130, Nappy_136, Naval22_142, NedWong_135,

Ngannou_131, Nidhogg_136, NoodleTree_141, Norm_135, NuevoMundo_139, OrediggerDelux_137, ParkTD_135, Patter_135, Phabba_135, PharkleMinkus_137, Phlegm_138, Phox_131, Phrappuccino_80, Phusco_134, Pier_138, Pinkcreek_125, Pio_138, Pivoine_134, Pleione_137, Primadonna_128, Puhon_137, Pupusa_140, PurduePete_134, QBert_128, Quasimodo_136, Rabinovish_133, Rahel_133, Rizal_129, RoMag_129, Rocha_132, Ronan_128, Roots515_133, SVoro_132, Salacia_138, Sauce_134, ScoobyDoobyDoo_126, ScottMcG_130, Sebata_134, Settecandela_80, Shaqnato_127, Shelob_136, ShiaLabeouf_133, Shifa_123, Shnickers_134, Shrimp_134, SilverDipper_136, SiwenD96_135, SmallFry_134, SoilZilla_130, Spec_131, Specks_139, Sprinklers_130, Spud_133, SrishMeg2525_133, StephanieG_132, StubbySaigey_138, Stubby_127, Substance289_132, Tainan_137, Teardrop_133, TinyTim_134, Tonenili_147, Tortoise16_131, Trinitium_132, Turret_130, Tyke_134, ValleyTerrace_135, Vortex_146, Wally_133, Willis_135, Yassified_131, YemiJoy2021_135, YoungMoneyMata_136, Yucca_133, Zalkecks_135, Zeenon_135, ZygoTaiga_132,

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

-

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

- JeanGrey_50, RedWattleHog_48, Stormageddon_45,

Summary by start number:

Start 2:

- Found in 230 of 233 (98.7%) of genes in pham
- Manual Annotations of this start: 197 of 200
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ablatia_134 (C1), Ading_134 (C1), Adlitam_135 (C1), Alice_127 (C1), Amataga_135 (C1), ArcherS7_133 (C1), Asterius_137 (C1), Astraea_130 (C1), Atlantean_134 (C1), Audrick_137 (C1), Ava3_135 (C1), Babyland_136 (C1), BackyardAgain_131 (C1), BadAgartude_130 (C1), BananaFence_133 (C1), Bangla1971_135 (C1), Basquiat_131 (C1), BeanWater_126 (C1), Belieber_130 (C1), Bezza_128 (C1), BigCity_142 (C1), Bigswole_137 (C1), Bipolarisk_133 (C1), Blackbrain_130 (C1), Blackdragon_130 (C1), Blubba_126 (C1), BobaPhatt_131 (C1), Bonray_135 (C1), Bowman_136 (C1), Bread_133 (C1), Breeniome_133 (C1), Burrough_134 (C1), Bxz1_131 (C1), Cactojaque_130 (C1), Cali_129 (C1), Cane17_126 (C1), Capablanca_137 (C1), Caravan_128 (C1), Catera_130 (C1), Chargie21_131 (C1), CharlieB_131 (C1), ChaylaJr_130 (C1), ChickenPhender_130 (C1), Chomp_134 (C1), CindyLou_136 (C1), Cleatunium_127 (C1), Colt_126 (C1), Concombre_140 (C1), DTDevon_134 (C1), Daffodil_139 (C1), Dandelion_139 (C1), Darko_134 (C1), DeejaClivia_121 (C1), Delilah_134 (C1), Delylah_137 (C1), Demodog_141 (C1), Derek_133 (C1), Dessert_135 (C1), Dietrick_126 (C1), DirtMonster_128 (C1), Domi_127 (C1), DrPhinkDaddy_133 (C1), Drazdys_132 (C1), Duckfeet_128 (C1), E3_gp117.5 (singleton), ET08_122 (C1), EasyJones_137 (C1), EgggyFarm_142 (C1), EmToTheThree_136 (C1), EmmaElysia_135 (C1), Erdmann_134 (C1), ErnieJ_128 (C1), Essence_131 (C1), Ewok_135 (C1), Finch_50 (singleton), Fixie_127 (C1), Flabslab_129 (C1), Fludd_135 (C1), Fongie_132 (C1), FoxtrotP1_134 (C1), FrayBell_139 (C1), FudgeTart_132 (C1), Gabriel_134 (C1), Gamgam_135 (C1), Ghost_133 (C1), Gizmo_139 (C1), GlutenPhree_136 (C1), GoldenSnow_137 (C1), Grasshills_141 (C1), Greely_133 (C2), Grungle_121 (C1), Guwapp_133 (C1), Halldule_128 (C1), HyRo_125 (C1), I3_139 (C1), IkeLoa_128 (C1),

InigoMontoya_137 (C1), InterFolia_140 (C1), Iota_129 (C1), Issimir_132 (C1), Izajani_134 (C1), JPickles_131 (C1), Janiyr_137 (C1), JayJay_139 (C1), Jaygup_134 (C1), Jedediah_137 (C1), Jemmno_134 (C1), Jessibeth14_133 (C1), Jezreel_134 (C1), JigglyPuff_142 (C1), JulietS_128 (C1), JustHall_132 (C1), Kamryn_134 (C1), Kboogie_138 (C1), Khaleesi_133 (C1), Koguma_131 (C1), LRRHood_127 (C1), Labradorite_133 (C1), Latch_135 (C1), Lee7_137 (C1), Lethe_132 (C1), LifeSavor_132 (C1), LinStu_132 (C1), Littleton_134 (C1), Loanshark_133 (C1), LolaVinca_134 (C1), LookingGlass_134 (C1), LordLeafolot_138 (C1), Lukilu_124 (C1), Lunareta_133 (C1), Maby2021_134 (C1), Maguvora_138 (C1), Mangeria_134 (C1), Matsumoto_132 (C1), Maturis_132 (C1), McGee_136 (C1), McWolfish_132 (C1), Megamind_133 (C1), Melpomini_128 (C1), MikeLiesIn_135 (C1), Mikro_131 (C1), MoMoMixon_134 (C1), Moby_127 (C1), Moiqah_126 (C1), Momo_134 (C1), Montpel_133 (C1), Morizzled23_135 (C1), Myrna_130 (C2), Naija_134 (C1), Napoleon13_130 (C1), Nappy_136 (C1), Naval22_142 (C1), NedWong_135 (C1), Ngannou_131 (C1), Nidhogg_136 (C1), NoodleTree_141 (C1), Norm_135 (C1), NuevoMundo_139 (C1), OrediggerDelux_137 (C1), ParkTD_135 (C1), Patter_135 (C1), Phabba_135 (C2), PharkleMinkus_137 (C1), Phlegm_138 (C1), Phox_131 (C1), Phrappuccino_80 (AA), Phusco_134 (C1), Pier_138 (C1), Pinkcreek_125 (C1), Pio_138 (C1), Pivoine_134 (C1), Pleione_137 (C1), Primadonna_128 (C1), Puhon_137 (C1), Pupusa_140 (C1), PurduePete_134 (C1), QBert_128 (C1), Quasimodo_136 (C1), Rabinovich_133 (C1), Rahel_133 (C1), Rizal_129 (C1), RoMag_129 (C1), Rocha_132 (C1), Ronan_128 (C1), Roots515_133 (C1), SVoro_132 (C1), Salacia_138 (C1), Sauce_134 (C1), ScoobyDoobyDoo_126 (C2), ScottMcG_130 (C1), Sebata_134 (C1), Settecandela_80 (AA), Shaqnato_127 (C1), Shelob_136 (C1), ShiaLabeouf_133 (C1), Shifa_123 (C1), Shnickers_134 (C1), Shrimp_134 (C1), SilverDipper_136 (C1), SiwenD96_135 (C1), SmallFry_134 (C1), SoilZilla_130 (C1), Spec_131 (C1), Specks_139 (C1), Sprinklers_130 (C1), Spud_133 (C1), SrishMeg2525_133 (C1), StephanieG_132 (C1), StubbySaigey_138 (C1), Stubby_127 (C1), Substance289_132 (C1), Tainan_137 (C1), Teardrop_133 (C1), TinyTim_134 (C1), Tonerili_147 (C1), Tortoise16_131 (C1), Trinitium_132 (C1), Turret_130 (C1), Tyke_134 (C1), ValleyTerrace_135 (C1), Vortrix_146 (C1), Wally_133 (C1), Willis_135 (C1), Yassified_131 (C1), YemiJoy2021_135 (C1), YoungMoneyMata_136 (C1), Yucca_133 (C1), Zalkecks_135 (C1), Zeenon_135 (C1), ZygoTaiga_132 (C1),

Start 3:

- Found in 4 of 233 (1.7%) of genes in pham
- Manual Annotations of this start: 3 of 200
- Called 75.0% of time when present
- Phage (with cluster) where this start called: JeanGrey_50 (singleton), RedWattleHog_48 (DX), Stormageddon_45 (DX),

Summary by clusters:

There are 5 clusters represented in this pham: AA, C2, C1, singleton, DX,

Info for manual annotations of cluster AA:

- Start number 2 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster C1:

- Start number 2 was manually annotated 191 times for cluster C1.

Info for manual annotations of cluster C2:

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

Info for manual annotations of cluster DX:

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

Gene Information:

Gene: Ablatia_134 Start: 74552, Stop: 74722, Start Num: 2

Candidate Starts for Ablatia_134:

(Start: 2 @74552 has 197 MA's), (7, 74630), (9, 74654), (14, 74690),

Gene: Ading_134 Start: 74521, Stop: 74691, Start Num: 2

Candidate Starts for Ading_134:

(Start: 2 @74521 has 197 MA's), (7, 74599), (9, 74623), (12, 74653), (14, 74659),

Gene: Adlitam_135 Start: 75017, Stop: 75187, Start Num: 2

Candidate Starts for Adlitam_135:

(Start: 2 @75017 has 197 MA's), (7, 75095), (9, 75119), (14, 75155),

Gene: Alice_127 Start: 74242, Stop: 74412, Start Num: 2

Candidate Starts for Alice_127:

(Start: 2 @74242 has 197 MA's), (7, 74320), (9, 74344), (14, 74380),

Gene: Amataga_135 Start: 74262, Stop: 74432, Start Num: 2

Candidate Starts for Amataga_135:

(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: ArcherS7_133 Start: 74101, Stop: 74271, Start Num: 2

Candidate Starts for ArcherS7_133:

(Start: 2 @74101 has 197 MA's), (7, 74179), (9, 74203), (14, 74239),

Gene: Asterius_137 Start: 74777, Stop: 74947, Start Num: 2

Candidate Starts for Asterius_137:

(Start: 2 @74777 has 197 MA's), (7, 74855), (9, 74879), (14, 74915),

Gene: Astraea_130 Start: 73542, Stop: 73712, Start Num: 2

Candidate Starts for Astraea_130:

(Start: 2 @73542 has 197 MA's), (7, 73620), (9, 73644), (14, 73680),

Gene: Atlantean_134 Start: 74262, Stop: 74432, Start Num: 2

Candidate Starts for Atlantean_134:

(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: Audrick_137 Start: 74241, Stop: 74411, Start Num: 2

Candidate Starts for Audrick_137:

(Start: 2 @74241 has 197 MA's), (7, 74319), (9, 74343), (12, 74373), (14, 74379),

Gene: Ava3_135 Start: 74686, Stop: 74856, Start Num: 2

Candidate Starts for Ava3_135:

(Start: 2 @74686 has 197 MA's), (7, 74764), (9, 74788), (14, 74824),

Gene: Babyland_136 Start: 74340, Stop: 74510, Start Num: 2
Candidate Starts for Babyland_136:
(Start: 2 @74340 has 197 MA's), (7, 74418), (9, 74442), (14, 74478),

Gene: BackyardAgain_131 Start: 73689, Stop: 73859, Start Num: 2
Candidate Starts for BackyardAgain_131:
(Start: 2 @73689 has 197 MA's), (7, 73767), (9, 73791), (14, 73827),

Gene: BadAgartude_130 Start: 74988, Stop: 75158, Start Num: 2
Candidate Starts for BadAgartude_130:
(Start: 2 @74988 has 197 MA's), (7, 75066), (9, 75090), (14, 75126),

Gene: BananaFence_133 Start: 74942, Stop: 75112, Start Num: 2
Candidate Starts for BananaFence_133:
(Start: 2 @74942 has 197 MA's), (7, 75020), (9, 75044), (14, 75080),

Gene: Bangla1971_135 Start: 74231, Stop: 74401, Start Num: 2
Candidate Starts for Bangla1971_135:
(Start: 2 @74231 has 197 MA's), (7, 74309), (9, 74333), (14, 74369),

Gene: Basquiat_131 Start: 73840, Stop: 74010, Start Num: 2
Candidate Starts for Basquiat_131:
(Start: 2 @73840 has 197 MA's), (7, 73918), (9, 73942), (14, 73978),

Gene: BeanWater_126 Start: 74540, Stop: 74710, Start Num: 2
Candidate Starts for BeanWater_126:
(Start: 2 @74540 has 197 MA's), (7, 74618), (9, 74642), (14, 74678),

Gene: Belieber_130 Start: 74015, Stop: 74185, Start Num: 2
Candidate Starts for Belieber_130:
(Start: 2 @74015 has 197 MA's), (7, 74093), (9, 74117), (14, 74153),

Gene: Bezza_128 Start: 74598, Stop: 74768, Start Num: 2
Candidate Starts for Bezza_128:
(Start: 2 @74598 has 197 MA's), (7, 74676), (9, 74700), (14, 74736),

Gene: BigCity_142 Start: 77212, Stop: 77382, Start Num: 2
Candidate Starts for BigCity_142:
(Start: 2 @77212 has 197 MA's), (7, 77290), (9, 77314), (14, 77350),

Gene: Bigswole_137 Start: 76497, Stop: 76667, Start Num: 2
Candidate Starts for Bigswole_137:
(Start: 2 @76497 has 197 MA's), (7, 76575), (9, 76599), (14, 76635),

Gene: Bipolarisk_133 Start: 74954, Stop: 75124, Start Num: 2
Candidate Starts for Bipolarisk_133:
(Start: 2 @74954 has 197 MA's), (7, 75032), (9, 75056), (14, 75092),

Gene: Blackbrain_130 Start: 73725, Stop: 73895, Start Num: 2
Candidate Starts for Blackbrain_130:
(Start: 2 @73725 has 197 MA's), (7, 73803), (9, 73827), (14, 73863),

Gene: Blackdragon_130 Start: 74369, Stop: 74539, Start Num: 2

Candidate Starts for Blackdragon_130:
(Start: 2 @74369 has 197 MA's), (7, 74447), (9, 74471), (14, 74507),

Gene: Blubba_126 Start: 76087, Stop: 76257, Start Num: 2
Candidate Starts for Blubba_126:
(Start: 2 @76087 has 197 MA's), (7, 76165), (9, 76189), (14, 76225),

Gene: BobaPhatt_131 Start: 73304, Stop: 73474, Start Num: 2
Candidate Starts for BobaPhatt_131:
(Start: 2 @73304 has 197 MA's), (7, 73382), (9, 73406), (14, 73442),

Gene: Bonray_135 Start: 75596, Stop: 75766, Start Num: 2
Candidate Starts for Bonray_135:
(Start: 2 @75596 has 197 MA's), (7, 75674), (9, 75698), (14, 75734),

Gene: Bowman_136 Start: 74678, Stop: 74848, Start Num: 2
Candidate Starts for Bowman_136:
(Start: 2 @74678 has 197 MA's), (7, 74756), (9, 74780), (14, 74816),

Gene: Bread_133 Start: 74772, Stop: 74942, Start Num: 2
Candidate Starts for Bread_133:
(Start: 2 @74772 has 197 MA's), (7, 74850), (9, 74874), (14, 74910),

Gene: Breeniome_133 Start: 73130, Stop: 73300, Start Num: 2
Candidate Starts for Breeniome_133:
(Start: 2 @73130 has 197 MA's), (7, 73208), (9, 73232), (12, 73262), (14, 73268),

Gene: Burrough_134 Start: 75281, Stop: 75451, Start Num: 2
Candidate Starts for Burrough_134:
(Start: 2 @75281 has 197 MA's), (7, 75359), (9, 75383), (14, 75419),

Gene: Bxz1_131 Start: 76484, Stop: 76654, Start Num: 2
Candidate Starts for Bxz1_131:
(Start: 2 @76484 has 197 MA's), (7, 76562), (9, 76586), (14, 76622),

Gene: Cactojaque_130 Start: 73832, Stop: 74002, Start Num: 2
Candidate Starts for Cactojaque_130:
(Start: 2 @73832 has 197 MA's), (7, 73910), (9, 73934), (14, 73970),

Gene: Cali_129 Start: 75283, Stop: 75453, Start Num: 2
Candidate Starts for Cali_129:
(Start: 2 @75283 has 197 MA's), (7, 75361), (9, 75385), (14, 75421),

Gene: Cane17_126 Start: 76145, Stop: 76315, Start Num: 2
Candidate Starts for Cane17_126:
(Start: 2 @76145 has 197 MA's), (7, 76223), (9, 76247), (14, 76283),

Gene: Capablanca_137 Start: 76012, Stop: 76182, Start Num: 2
Candidate Starts for Capablanca_137:
(Start: 2 @76012 has 197 MA's), (7, 76090), (9, 76114), (12, 76144), (14, 76150),

Gene: Caravan_128 Start: 74640, Stop: 74810, Start Num: 2
Candidate Starts for Caravan_128:

(Start: 2 @74640 has 197 MA's), (7, 74718), (9, 74742), (14, 74778),

Gene: Catera_130 Start: 73547, Stop: 73717, Start Num: 2

Candidate Starts for Catera_130:

(Start: 2 @73547 has 197 MA's), (7, 73625), (9, 73649), (14, 73685),

Gene: Chargie21_131 Start: 73840, Stop: 74010, Start Num: 2

Candidate Starts for Chargie21_131:

(Start: 2 @73840 has 197 MA's), (7, 73918), (9, 73942), (14, 73978),

Gene: CharlieB_131 Start: 74166, Stop: 74336, Start Num: 2

Candidate Starts for CharlieB_131:

(Start: 2 @74166 has 197 MA's), (7, 74244), (9, 74268), (14, 74304),

Gene: ChaylaJr_130 Start: 73648, Stop: 73818, Start Num: 2

Candidate Starts for ChaylaJr_130:

(Start: 2 @73648 has 197 MA's), (7, 73726), (9, 73750), (14, 73786),

Gene: ChickenPhender_130 Start: 73472, Stop: 73642, Start Num: 2

Candidate Starts for ChickenPhender_130:

(Start: 2 @73472 has 197 MA's), (7, 73550), (9, 73574), (14, 73610),

Gene: Chomp_134 Start: 75551, Stop: 75721, Start Num: 2

Candidate Starts for Chomp_134:

(Start: 2 @75551 has 197 MA's), (7, 75629), (9, 75653), (12, 75683), (14, 75689),

Gene: CindyLou_136 Start: 75591, Stop: 75761, Start Num: 2

Candidate Starts for CindyLou_136:

(Start: 2 @75591 has 197 MA's), (7, 75669), (9, 75693), (14, 75729),

Gene: Cleatunium_127 Start: 73759, Stop: 73929, Start Num: 2

Candidate Starts for Cleatunium_127:

(Start: 2 @73759 has 197 MA's), (7, 73837), (9, 73861), (14, 73897),

Gene: Colt_126 Start: 76262, Stop: 76432, Start Num: 2

Candidate Starts for Colt_126:

(Start: 2 @76262 has 197 MA's), (7, 76340), (9, 76364), (14, 76400),

Gene: Concombre_140 Start: 77445, Stop: 77615, Start Num: 2

Candidate Starts for Concombre_140:

(Start: 2 @77445 has 197 MA's), (7, 77523), (9, 77547), (14, 77583),

Gene: DTDevon_134 Start: 75313, Stop: 75483, Start Num: 2

Candidate Starts for DTDevon_134:

(Start: 2 @75313 has 197 MA's), (7, 75391), (9, 75415), (14, 75451),

Gene: Daffodil_139 Start: 75254, Stop: 75424, Start Num: 2

Candidate Starts for Daffodil_139:

(Start: 2 @75254 has 197 MA's), (7, 75332), (9, 75356), (14, 75392),

Gene: Dandelion_139 Start: 77446, Stop: 77616, Start Num: 2

Candidate Starts for Dandelion_139:

(Start: 2 @77446 has 197 MA's), (7, 77524), (9, 77548), (14, 77584),

Gene: Darko_134 Start: 74946, Stop: 75116, Start Num: 2
Candidate Starts for Darko_134:
(Start: 2 @74946 has 197 MA's), (7, 75024), (9, 75048), (14, 75084),

Gene: DeejaClivia_121 Start: 71612, Stop: 71782, Start Num: 2
Candidate Starts for DeejaClivia_121:
(Start: 2 @71612 has 197 MA's), (7, 71690), (9, 71714), (14, 71750),

Gene: Delilah_134 Start: 75408, Stop: 75578, Start Num: 2
Candidate Starts for Delilah_134:
(Start: 2 @75408 has 197 MA's), (7, 75486), (9, 75510), (14, 75546),

Gene: Delylah_137 Start: 74947, Stop: 75117, Start Num: 2
Candidate Starts for Delylah_137:
(Start: 2 @74947 has 197 MA's), (7, 75025), (9, 75049), (14, 75085),

Gene: Demodog_141 Start: 77454, Stop: 77624, Start Num: 2
Candidate Starts for Demodog_141:
(Start: 2 @77454 has 197 MA's), (7, 77532), (9, 77556), (14, 77592),

Gene: Derek_133 Start: 74873, Stop: 75043, Start Num: 2
Candidate Starts for Derek_133:
(Start: 2 @74873 has 197 MA's), (7, 74951), (9, 74975), (14, 75011),

Gene: Dessert_135 Start: 73828, Stop: 73998, Start Num: 2
Candidate Starts for Dessert_135:
(Start: 2 @73828 has 197 MA's), (7, 73906), (9, 73930), (12, 73960), (14, 73966),

Gene: Dietrick_126 Start: 72949, Stop: 73119, Start Num: 2
Candidate Starts for Dietrick_126:
(Start: 2 @72949 has 197 MA's), (7, 73027), (9, 73051), (14, 73087),

Gene: DirtMonster_128 Start: 74207, Stop: 74377, Start Num: 2
Candidate Starts for DirtMonster_128:
(Start: 2 @74207 has 197 MA's), (7, 74285), (9, 74309), (14, 74345),

Gene: Domi_127 Start: 74286, Stop: 74456, Start Num: 2
Candidate Starts for Domi_127:
(Start: 2 @74286 has 197 MA's), (7, 74364), (9, 74388), (14, 74424),

Gene: DrPhinkDaddy_133 Start: 75466, Stop: 75636, Start Num: 2
Candidate Starts for DrPhinkDaddy_133:
(Start: 2 @75466 has 197 MA's), (7, 75544), (9, 75568), (14, 75604),

Gene: Drazdys_132 Start: 73937, Stop: 74107, Start Num: 2
Candidate Starts for Drazdys_132:
(Start: 2 @73937 has 197 MA's), (7, 74015), (9, 74039), (14, 74075),

Gene: Duckfeet_128 Start: 73878, Stop: 74048, Start Num: 2
Candidate Starts for Duckfeet_128:
(Start: 2 @73878 has 197 MA's), (7, 73956), (9, 73980), (14, 74016),

Gene: E3_gp117.5 Start: 71931, Stop: 72089, Start Num: 2

Candidate Starts for E3_gp117.5:

(Start: 2 @71931 has 197 MA's), (11, 72057),

Gene: ET08_122 Start: 73927, Stop: 74097, Start Num: 2

Candidate Starts for ET08_122:

(Start: 2 @73927 has 197 MA's), (7, 74005), (9, 74029), (14, 74065),

Gene: EasyJones_137 Start: 74494, Stop: 74664, Start Num: 2

Candidate Starts for EasyJones_137:

(Start: 2 @74494 has 197 MA's), (7, 74572), (9, 74596), (14, 74632),

Gene: EggFarm_142 Start: 77212, Stop: 77382, Start Num: 2

Candidate Starts for EggFarm_142:

(Start: 2 @77212 has 197 MA's), (7, 77290), (9, 77314), (14, 77350),

Gene: EmToTheThree_136 Start: 76206, Stop: 76376, Start Num: 2

Candidate Starts for EmToTheThree_136:

(Start: 2 @76206 has 197 MA's), (7, 76284), (9, 76308), (14, 76344),

Gene: EmmaElysia_135 Start: 74481, Stop: 74651, Start Num: 2

Candidate Starts for EmmaElysia_135:

(Start: 2 @74481 has 197 MA's), (7, 74559), (9, 74583), (14, 74619),

Gene: Erdmann_134 Start: 75255, Stop: 75425, Start Num: 2

Candidate Starts for Erdmann_134:

(Start: 2 @75255 has 197 MA's), (7, 75333), (9, 75357), (14, 75393),

Gene: ErnieJ_128 Start: 73224, Stop: 73394, Start Num: 2

Candidate Starts for ErnieJ_128:

(Start: 2 @73224 has 197 MA's), (7, 73302), (9, 73326), (14, 73362),

Gene: Essence_131 Start: 74103, Stop: 74273, Start Num: 2

Candidate Starts for Essence_131:

(Start: 2 @74103 has 197 MA's), (7, 74181), (9, 74205), (14, 74241),

Gene: Ewok_135 Start: 74632, Stop: 74802, Start Num: 2

Candidate Starts for Ewok_135:

(Start: 2 @74632 has 197 MA's), (7, 74710), (9, 74734), (14, 74770),

Gene: Finch_50 Start: 40615, Stop: 40791, Start Num: 2

Candidate Starts for Finch_50:

(Start: 2 @40615 has 197 MA's), (Start: 3 @40618 has 3 MA's), (15, 40756), (17, 40783),

Gene: Fixie_127 Start: 74375, Stop: 74545, Start Num: 2

Candidate Starts for Fixie_127:

(Start: 2 @74375 has 197 MA's), (7, 74453), (9, 74477), (12, 74507), (14, 74513),

Gene: Flabslab_129 Start: 72814, Stop: 72984, Start Num: 2

Candidate Starts for Flabslab_129:

(Start: 2 @72814 has 197 MA's), (7, 72892), (9, 72916), (14, 72952),

Gene: Fludd_135 Start: 74280, Stop: 74450, Start Num: 2

Candidate Starts for Fludd_135:
(Start: 2 @74280 has 197 MA's), (7, 74358), (9, 74382), (14, 74418),

Gene: Fongie_132 Start: 74845, Stop: 75015, Start Num: 2
Candidate Starts for Fongie_132:
(Start: 2 @74845 has 197 MA's), (7, 74923), (9, 74947), (14, 74983),

Gene: FoxtrotP1_134 Start: 76415, Stop: 76585, Start Num: 2
Candidate Starts for FoxtrotP1_134:
(Start: 2 @76415 has 197 MA's), (7, 76493), (9, 76517), (14, 76553),

Gene: FrayBell_139 Start: 75579, Stop: 75749, Start Num: 2
Candidate Starts for FrayBell_139:
(Start: 2 @75579 has 197 MA's), (7, 75657), (9, 75681), (14, 75717),

Gene: FudgeTart_132 Start: 74285, Stop: 74455, Start Num: 2
Candidate Starts for FudgeTart_132:
(Start: 2 @74285 has 197 MA's), (7, 74363), (9, 74387), (14, 74423),

Gene: Gabriel_134 Start: 73509, Stop: 73679, Start Num: 2
Candidate Starts for Gabriel_134:
(Start: 2 @73509 has 197 MA's), (7, 73587), (9, 73611), (12, 73641), (14, 73647),

Gene: Gamgam_135 Start: 74252, Stop: 74422, Start Num: 2
Candidate Starts for Gamgam_135:
(Start: 2 @74252 has 197 MA's), (7, 74330), (9, 74354), (14, 74390),

Gene: Ghost_133 Start: 74262, Stop: 74432, Start Num: 2
Candidate Starts for Ghost_133:
(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: Gizmo_139 Start: 76884, Stop: 77054, Start Num: 2
Candidate Starts for Gizmo_139:
(Start: 2 @76884 has 197 MA's), (7, 76962), (9, 76986), (14, 77022),

Gene: GlutenPhree_136 Start: 74262, Stop: 74432, Start Num: 2
Candidate Starts for GlutenPhree_136:
(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: GoldenSnow_137 Start: 75578, Stop: 75748, Start Num: 2
Candidate Starts for GoldenSnow_137:
(Start: 2 @75578 has 197 MA's), (7, 75656), (9, 75680), (14, 75716),

Gene: Grasshills_141 Start: 77212, Stop: 77382, Start Num: 2
Candidate Starts for Grasshills_141:
(Start: 2 @77212 has 197 MA's), (7, 77290), (9, 77314), (14, 77350),

Gene: Greely_133 Start: 75653, Stop: 75820, Start Num: 2
Candidate Starts for Greely_133:
(Start: 2 @75653 has 197 MA's), (5, 75698), (7, 75731), (11, 75779),

Gene: Grungle_121 Start: 71527, Stop: 71697, Start Num: 2
Candidate Starts for Grungle_121:

(Start: 2 @71527 has 197 MA's), (7, 71605), (9, 71629), (14, 71665),

Gene: Guwapp_133 Start: 73674, Stop: 73844, Start Num: 2

Candidate Starts for Guwapp_133:

(Start: 2 @73674 has 197 MA's), (7, 73752), (9, 73776), (14, 73812),

Gene: Halldule_128 Start: 72553, Stop: 72723, Start Num: 2

Candidate Starts for Halldule_128:

(Start: 2 @72553 has 197 MA's), (7, 72631), (9, 72655), (14, 72691),

Gene: HyRo_125 Start: 74205, Stop: 74375, Start Num: 2

Candidate Starts for HyRo_125:

(Start: 2 @74205 has 197 MA's), (7, 74283), (9, 74307), (14, 74343),

Gene: I3_139 Start: 75740, Stop: 75910, Start Num: 2

Candidate Starts for I3_139:

(Start: 2 @75740 has 197 MA's), (7, 75818), (9, 75842), (14, 75878),

Gene: IkeLoa_128 Start: 74160, Stop: 74330, Start Num: 2

Candidate Starts for IkeLoa_128:

(Start: 2 @74160 has 197 MA's), (7, 74238), (9, 74262), (14, 74298),

Gene: InigoMontoya_137 Start: 74223, Stop: 74393, Start Num: 2

Candidate Starts for InigoMontoya_137:

(Start: 2 @74223 has 197 MA's), (7, 74301), (9, 74325), (12, 74355), (14, 74361),

Gene: InterFolia_140 Start: 76514, Stop: 76684, Start Num: 2

Candidate Starts for InterFolia_140:

(Start: 2 @76514 has 197 MA's), (7, 76592), (9, 76616), (14, 76652),

Gene: Iota_129 Start: 74211, Stop: 74381, Start Num: 2

Candidate Starts for Iota_129:

(Start: 2 @74211 has 197 MA's), (7, 74289), (9, 74313), (14, 74349),

Gene: Issimir_132 Start: 75219, Stop: 75389, Start Num: 2

Candidate Starts for Issimir_132:

(Start: 2 @75219 has 197 MA's), (7, 75297), (9, 75321), (14, 75357),

Gene: Izajani_134 Start: 75425, Stop: 75595, Start Num: 2

Candidate Starts for Izajani_134:

(Start: 2 @75425 has 197 MA's), (7, 75503), (9, 75527), (14, 75563),

Gene: JPickles_131 Start: 73014, Stop: 73184, Start Num: 2

Candidate Starts for JPickles_131:

(Start: 2 @73014 has 197 MA's), (7, 73092), (9, 73116), (12, 73146), (14, 73152),

Gene: Janiyra_137 Start: 75189, Stop: 75359, Start Num: 2

Candidate Starts for Janiyra_137:

(Start: 2 @75189 has 197 MA's), (7, 75267), (9, 75291), (12, 75321), (14, 75327),

Gene: JayJay_139 Start: 76220, Stop: 76390, Start Num: 2

Candidate Starts for JayJay_139:

(Start: 2 @76220 has 197 MA's), (7, 76298), (9, 76322), (14, 76358),

Gene: Jaygup_134 Start: 74539, Stop: 74709, Start Num: 2
Candidate Starts for Jaygup_134:
(Start: 2 @74539 has 197 MA's), (7, 74617), (9, 74641), (14, 74677),

Gene: JeanGrey_50 Start: 35782, Stop: 35952, Start Num: 3
Candidate Starts for JeanGrey_50:
(Start: 3 @35782 has 3 MA's),

Gene: Jedediah_137 Start: 75072, Stop: 75242, Start Num: 2
Candidate Starts for Jedediah_137:
(Start: 2 @75072 has 197 MA's), (7, 75150), (9, 75174), (14, 75210),

Gene: Jemmno_134 Start: 74519, Stop: 74689, Start Num: 2
Candidate Starts for Jemmno_134:
(Start: 2 @74519 has 197 MA's), (7, 74597), (9, 74621), (14, 74657),

Gene: Jessibeth14_133 Start: 75051, Stop: 75221, Start Num: 2
Candidate Starts for Jessibeth14_133:
(Start: 2 @75051 has 197 MA's), (7, 75129), (9, 75153), (14, 75189),

Gene: Jezreel_134 Start: 75205, Stop: 75375, Start Num: 2
Candidate Starts for Jezreel_134:
(Start: 2 @75205 has 197 MA's), (7, 75283), (9, 75307), (14, 75343),

Gene: JigglyPuff_142 Start: 77369, Stop: 77539, Start Num: 2
Candidate Starts for JigglyPuff_142:
(Start: 2 @77369 has 197 MA's), (7, 77447), (9, 77471), (14, 77507),

Gene: JulietS_128 Start: 72406, Stop: 72576, Start Num: 2
Candidate Starts for JulietS_128:
(Start: 2 @72406 has 197 MA's), (7, 72484), (9, 72508), (14, 72544),

Gene: JustHall_132 Start: 75047, Stop: 75217, Start Num: 2
Candidate Starts for JustHall_132:
(Start: 2 @75047 has 197 MA's), (7, 75125), (9, 75149), (14, 75185),

Gene: Kamryn_134 Start: 75857, Stop: 76027, Start Num: 2
Candidate Starts for Kamryn_134:
(Start: 2 @75857 has 197 MA's), (7, 75935), (9, 75959), (14, 75995),

Gene: Kboogie_138 Start: 74212, Stop: 74382, Start Num: 2
Candidate Starts for Kboogie_138:
(Start: 2 @74212 has 197 MA's), (7, 74290), (9, 74314), (14, 74350),

Gene: Khaleesi_133 Start: 75154, Stop: 75324, Start Num: 2
Candidate Starts for Khaleesi_133:
(Start: 2 @75154 has 197 MA's), (7, 75232), (9, 75256), (14, 75292),

Gene: Koguma_131 Start: 72689, Stop: 72859, Start Num: 2
Candidate Starts for Koguma_131:
(Start: 2 @72689 has 197 MA's), (7, 72767), (9, 72791), (14, 72827),

Gene: LRRHood_127 Start: 74497, Stop: 74667, Start Num: 2
Candidate Starts for LRRHood_127:
(Start: 2 @74497 has 197 MA's), (7, 74575), (9, 74599), (14, 74635),

Gene: Labradorite_133 Start: 73226, Stop: 73396, Start Num: 2
Candidate Starts for Labradorite_133:
(Start: 2 @73226 has 197 MA's), (7, 73304), (9, 73328), (14, 73364),

Gene: Latch_135 Start: 74262, Stop: 74432, Start Num: 2
Candidate Starts for Latch_135:
(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: Lee7_137 Start: 75778, Stop: 75948, Start Num: 2
Candidate Starts for Lee7_137:
(Start: 2 @75778 has 197 MA's), (7, 75856), (9, 75880), (14, 75916),

Gene: Lethe_132 Start: 75216, Stop: 75386, Start Num: 2
Candidate Starts for Lethe_132:
(Start: 2 @75216 has 197 MA's), (7, 75294), (9, 75318), (14, 75354),

Gene: LifeSavor_132 Start: 74471, Stop: 74641, Start Num: 2
Candidate Starts for LifeSavor_132:
(Start: 2 @74471 has 197 MA's), (7, 74549), (9, 74573), (14, 74609),

Gene: LinStu_132 Start: 75106, Stop: 75276, Start Num: 2
Candidate Starts for LinStu_132:
(Start: 2 @75106 has 197 MA's), (7, 75184), (9, 75208), (14, 75244),

Gene: Littleton_134 Start: 74591, Stop: 74761, Start Num: 2
Candidate Starts for Littleton_134:
(Start: 2 @74591 has 197 MA's), (7, 74669), (9, 74693), (14, 74729),

Gene: Loanshark_133 Start: 75122, Stop: 75292, Start Num: 2
Candidate Starts for Loanshark_133:
(Start: 2 @75122 has 197 MA's), (7, 75200), (9, 75224), (14, 75260),

Gene: LolaVince_134 Start: 75465, Stop: 75635, Start Num: 2
Candidate Starts for LolaVince_134:
(Start: 2 @75465 has 197 MA's), (7, 75543), (9, 75567), (14, 75603),

Gene: LookingGlass_134 Start: 75290, Stop: 75460, Start Num: 2
Candidate Starts for LookingGlass_134:
(Start: 2 @75290 has 197 MA's), (7, 75368), (9, 75392), (14, 75428),

Gene: LordLeafolot_138 Start: 76431, Stop: 76601, Start Num: 2
Candidate Starts for LordLeafolot_138:
(Start: 2 @76431 has 197 MA's), (7, 76509), (9, 76533), (14, 76569),

Gene: Lukilu_124 Start: 75507, Stop: 75677, Start Num: 2
Candidate Starts for Lukilu_124:
(Start: 2 @75507 has 197 MA's), (7, 75585), (9, 75609), (14, 75645),

Gene: Lunareta_133 Start: 76387, Stop: 76557, Start Num: 2

Candidate Starts for Lunareta_133:
(Start: 2 @76387 has 197 MA's), (7, 76465), (9, 76489), (14, 76525),

Gene: Maby2021_134 Start: 75238, Stop: 75408, Start Num: 2
Candidate Starts for Maby2021_134:
(Start: 2 @75238 has 197 MA's), (7, 75316), (9, 75340), (14, 75376),

Gene: Maguvora_138 Start: 75819, Stop: 75989, Start Num: 2
Candidate Starts for Maguvora_138:
(Start: 2 @75819 has 197 MA's), (7, 75897), (9, 75921), (14, 75957),

Gene: Mangeria_134 Start: 75308, Stop: 75478, Start Num: 2
Candidate Starts for Mangeria_134:
(Start: 2 @75308 has 197 MA's), (7, 75386), (9, 75410), (14, 75446),

Gene: Matsumoto_132 Start: 74099, Stop: 74269, Start Num: 2
Candidate Starts for Matsumoto_132:
(Start: 2 @74099 has 197 MA's), (7, 74177), (9, 74201), (14, 74237),

Gene: Maturis_132 Start: 74883, Stop: 75053, Start Num: 2
Candidate Starts for Maturis_132:
(Start: 2 @74883 has 197 MA's), (7, 74961), (9, 74985), (14, 75021),

Gene: McGee_136 Start: 73853, Stop: 74023, Start Num: 2
Candidate Starts for McGee_136:
(Start: 2 @73853 has 197 MA's), (7, 73931), (9, 73955), (14, 73991),

Gene: McWolfish_132 Start: 75027, Stop: 75197, Start Num: 2
Candidate Starts for McWolfish_132:
(Start: 2 @75027 has 197 MA's), (7, 75105), (9, 75129), (14, 75165),

Gene: Megamind_133 Start: 74911, Stop: 75081, Start Num: 2
Candidate Starts for Megamind_133:
(Start: 2 @74911 has 197 MA's), (7, 74989), (9, 75013), (14, 75049),

Gene: Melpomini_128 Start: 72377, Stop: 72547, Start Num: 2
Candidate Starts for Melpomini_128:
(Start: 2 @72377 has 197 MA's), (7, 72455), (9, 72479), (14, 72515),

Gene: MikeLiesIn_135 Start: 75268, Stop: 75438, Start Num: 2
Candidate Starts for MikeLiesIn_135:
(Start: 2 @75268 has 197 MA's), (7, 75346), (9, 75370), (14, 75406),

Gene: Mikro_131 Start: 76481, Stop: 76651, Start Num: 2
Candidate Starts for Mikro_131:
(Start: 2 @76481 has 197 MA's), (7, 76559), (9, 76583), (14, 76619),

Gene: MoMoMixon_134 Start: 74744, Stop: 74914, Start Num: 2
Candidate Starts for MoMoMixon_134:
(Start: 2 @74744 has 197 MA's), (7, 74822), (9, 74846), (14, 74882),

Gene: Moby_127 Start: 72082, Stop: 72252, Start Num: 2
Candidate Starts for Moby_127:

(Start: 2 @72082 has 197 MA's), (7, 72160), (9, 72184), (14, 72220),

Gene: Moiqah_126 Start: 72059, Stop: 72229, Start Num: 2

Candidate Starts for Moiqah_126:

(Start: 2 @72059 has 197 MA's), (7, 72137), (9, 72161), (14, 72197),

Gene: Momo_134 Start: 74262, Stop: 74432, Start Num: 2

Candidate Starts for Momo_134:

(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: Montpel_133 Start: 76385, Stop: 76555, Start Num: 2

Candidate Starts for Montpel_133:

(Start: 2 @76385 has 197 MA's), (7, 76463), (9, 76487), (14, 76523),

Gene: Morizzled23_135 Start: 74617, Stop: 74787, Start Num: 2

Candidate Starts for Morizzled23_135:

(Start: 2 @74617 has 197 MA's), (7, 74695), (9, 74719), (14, 74755),

Gene: Myrna_130 Start: 76357, Stop: 76524, Start Num: 2

Candidate Starts for Myrna_130:

(Start: 2 @76357 has 197 MA's), (5, 76402), (6, 76414), (7, 76435), (11, 76483),

Gene: Naija_134 Start: 74262, Stop: 74432, Start Num: 2

Candidate Starts for Naija_134:

(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: Napoleon13_130 Start: 72815, Stop: 72985, Start Num: 2

Candidate Starts for Napoleon13_130:

(Start: 2 @72815 has 197 MA's), (7, 72893), (9, 72917), (14, 72953),

Gene: Nappy_136 Start: 76178, Stop: 76348, Start Num: 2

Candidate Starts for Nappy_136:

(Start: 2 @76178 has 197 MA's), (7, 76256), (9, 76280), (14, 76316),

Gene: Naval22_142 Start: 76711, Stop: 76881, Start Num: 2

Candidate Starts for Naval22_142:

(Start: 2 @76711 has 197 MA's), (7, 76789), (9, 76813), (14, 76849),

Gene: NedWong_135 Start: 75245, Stop: 75415, Start Num: 2

Candidate Starts for NedWong_135:

(Start: 2 @75245 has 197 MA's), (7, 75323), (9, 75347), (14, 75383),

Gene: Ngannou_131 Start: 73244, Stop: 73414, Start Num: 2

Candidate Starts for Ngannou_131:

(Start: 2 @73244 has 197 MA's), (7, 73322), (9, 73346), (12, 73376), (14, 73382),

Gene: Nidhogg_136 Start: 75468, Stop: 75638, Start Num: 2

Candidate Starts for Nidhogg_136:

(Start: 2 @75468 has 197 MA's), (7, 75546), (9, 75570), (14, 75606),

Gene: NoodleTree_141 Start: 75338, Stop: 75508, Start Num: 2

Candidate Starts for NoodleTree_141:

(Start: 2 @75338 has 197 MA's), (7, 75416), (9, 75440), (14, 75476),

Gene: Norm_135 Start: 75940, Stop: 76110, Start Num: 2
Candidate Starts for Norm_135:
(Start: 2 @75940 has 197 MA's), (7, 76018), (9, 76042), (14, 76078),

Gene: NuevoMundo_139 Start: 77520, Stop: 77690, Start Num: 2
Candidate Starts for NuevoMundo_139:
(Start: 2 @77520 has 197 MA's), (7, 77598), (9, 77622), (14, 77658),

Gene: OrediggerDelux_137 Start: 75775, Stop: 75945, Start Num: 2
Candidate Starts for OrediggerDelux_137:
(Start: 2 @75775 has 197 MA's), (7, 75853), (9, 75877), (14, 75913),

Gene: ParkTD_135 Start: 75251, Stop: 75421, Start Num: 2
Candidate Starts for ParkTD_135:
(Start: 2 @75251 has 197 MA's), (7, 75329), (9, 75353), (14, 75389),

Gene: Patter_135 Start: 74279, Stop: 74449, Start Num: 2
Candidate Starts for Patter_135:
(Start: 2 @74279 has 197 MA's), (7, 74357), (9, 74381), (14, 74417),

Gene: Phabba_135 Start: 75347, Stop: 75514, Start Num: 2
Candidate Starts for Phabba_135:
(Start: 2 @75347 has 197 MA's), (5, 75392), (7, 75425), (11, 75473),

Gene: PharkleMinkus_137 Start: 75579, Stop: 75749, Start Num: 2
Candidate Starts for PharkleMinkus_137:
(Start: 2 @75579 has 197 MA's), (7, 75657), (9, 75681), (14, 75717),

Gene: Phlegm_138 Start: 74262, Stop: 74432, Start Num: 2
Candidate Starts for Phlegm_138:
(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: Phox_131 Start: 75531, Stop: 75701, Start Num: 2
Candidate Starts for Phox_131:
(Start: 2 @75531 has 197 MA's), (7, 75609), (9, 75633), (14, 75669),

Gene: Phrappuccino_80 Start: 57608, Stop: 57769, Start Num: 2
Candidate Starts for Phrappuccino_80:
(Start: 2 @57608 has 197 MA's), (7, 57689), (8, 57692),

Gene: Phusco_134 Start: 74538, Stop: 74708, Start Num: 2
Candidate Starts for Phusco_134:
(Start: 2 @74538 has 197 MA's), (7, 74616), (9, 74640), (14, 74676),

Gene: Pier_138 Start: 77528, Stop: 77698, Start Num: 2
Candidate Starts for Pier_138:
(Start: 2 @77528 has 197 MA's), (7, 77606), (9, 77630), (14, 77666),

Gene: Pinkcreek_125 Start: 72872, Stop: 73042, Start Num: 2
Candidate Starts for Pinkcreek_125:
(Start: 2 @72872 has 197 MA's), (7, 72950), (9, 72974), (14, 73010),

Gene: Pio_138 Start: 77140, Stop: 77310, Start Num: 2

Candidate Starts for Pio_138:

(Start: 2 @77140 has 197 MA's), (7, 77218), (9, 77242), (14, 77278),

Gene: Pivoine_134 Start: 74262, Stop: 74432, Start Num: 2

Candidate Starts for Pivoine_134:

(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: Pleione_137 Start: 75418, Stop: 75588, Start Num: 2

Candidate Starts for Pleione_137:

(Start: 2 @75418 has 197 MA's), (7, 75496), (9, 75520), (14, 75556),

Gene: Primadonna_128 Start: 73903, Stop: 74073, Start Num: 2

Candidate Starts for Primadonna_128:

(Start: 2 @73903 has 197 MA's), (7, 73981), (9, 74005), (14, 74041),

Gene: Puhon_137 Start: 75767, Stop: 75937, Start Num: 2

Candidate Starts for Puhon_137:

(Start: 2 @75767 has 197 MA's), (7, 75845), (9, 75869), (14, 75905),

Gene: Pupusa_140 Start: 76620, Stop: 76790, Start Num: 2

Candidate Starts for Pupusa_140:

(Start: 2 @76620 has 197 MA's), (7, 76698), (9, 76722), (14, 76758),

Gene: PurduePete_134 Start: 75665, Stop: 75835, Start Num: 2

Candidate Starts for PurduePete_134:

(Start: 2 @75665 has 197 MA's), (7, 75743), (9, 75767), (14, 75803),

Gene: QBert_128 Start: 74255, Stop: 74425, Start Num: 2

Candidate Starts for QBert_128:

(Start: 2 @74255 has 197 MA's), (7, 74333), (9, 74357), (14, 74393),

Gene: Quasimodo_136 Start: 75679, Stop: 75849, Start Num: 2

Candidate Starts for Quasimodo_136:

(Start: 2 @75679 has 197 MA's), (7, 75757), (9, 75781), (14, 75817),

Gene: Rabinovish_133 Start: 75863, Stop: 76033, Start Num: 2

Candidate Starts for Rabinovish_133:

(Start: 2 @75863 has 197 MA's), (7, 75941), (9, 75965), (14, 76001),

Gene: Rahel_133 Start: 74140, Stop: 74310, Start Num: 2

Candidate Starts for Rahel_133:

(Start: 2 @74140 has 197 MA's), (7, 74218), (9, 74242), (14, 74278),

Gene: RedWattleHog_48 Start: 46138, Stop: 46311, Start Num: 3

Candidate Starts for RedWattleHog_48:

(1, 45976), (Start: 3 @46138 has 3 MA's), (5, 46180), (6, 46192), (10, 46249), (13, 46270), (16, 46288),

Gene: Rizal_129 Start: 73288, Stop: 73458, Start Num: 2

Candidate Starts for Rizal_129:

(Start: 2 @73288 has 197 MA's), (7, 73366), (9, 73390), (14, 73426),

Gene: RoMag_129 Start: 74452, Stop: 74622, Start Num: 2

Candidate Starts for RoMag_129:

(Start: 2 @74452 has 197 MA's), (7, 74530), (9, 74554), (14, 74590),

Gene: Rocha_132 Start: 74705, Stop: 74875, Start Num: 2

Candidate Starts for Rocha_132:

(Start: 2 @74705 has 197 MA's), (7, 74783), (9, 74807), (14, 74843),

Gene: Ronan_128 Start: 72401, Stop: 72571, Start Num: 2

Candidate Starts for Ronan_128:

(Start: 2 @72401 has 197 MA's), (7, 72479), (9, 72503), (14, 72539),

Gene: Roots515_133 Start: 75917, Stop: 76087, Start Num: 2

Candidate Starts for Roots515_133:

(Start: 2 @75917 has 197 MA's), (7, 75995), (9, 76019), (14, 76055),

Gene: SVoro_132 Start: 75625, Stop: 75795, Start Num: 2

Candidate Starts for SVoro_132:

(Start: 2 @75625 has 197 MA's), (7, 75703), (9, 75727), (14, 75763),

Gene: Salacia_138 Start: 75579, Stop: 75749, Start Num: 2

Candidate Starts for Salacia_138:

(Start: 2 @75579 has 197 MA's), (7, 75657), (9, 75681), (14, 75717),

Gene: Sauce_134 Start: 74195, Stop: 74365, Start Num: 2

Candidate Starts for Sauce_134:

(Start: 2 @74195 has 197 MA's), (7, 74273), (9, 74297), (14, 74333),

Gene: ScoobyDoobyDoo_126 Start: 74981, Stop: 75151, Start Num: 2

Candidate Starts for ScoobyDoobyDoo_126:

(Start: 2 @74981 has 197 MA's), (5, 75026), (11, 75107),

Gene: ScottMcG_130 Start: 74201, Stop: 74371, Start Num: 2

Candidate Starts for ScottMcG_130:

(Start: 2 @74201 has 197 MA's), (7, 74279), (9, 74303), (14, 74339),

Gene: Sebata_134 Start: 75664, Stop: 75834, Start Num: 2

Candidate Starts for Sebata_134:

(Start: 2 @75664 has 197 MA's), (7, 75742), (9, 75766), (14, 75802),

Gene: Settecandela_80 Start: 57608, Stop: 57769, Start Num: 2

Candidate Starts for Settecandela_80:

(Start: 2 @57608 has 197 MA's), (7, 57689), (8, 57692),

Gene: Shaqnato_127 Start: 73245, Stop: 73415, Start Num: 2

Candidate Starts for Shaqnato_127:

(Start: 2 @73245 has 197 MA's), (7, 73323), (9, 73347), (14, 73383),

Gene: Shelob_136 Start: 76047, Stop: 76217, Start Num: 2

Candidate Starts for Shelob_136:

(Start: 2 @76047 has 197 MA's), (7, 76125), (9, 76149), (14, 76185),

Gene: ShiaLabeouf_133 Start: 74575, Stop: 74745, Start Num: 2

Candidate Starts for ShiaLabeouf_133:

(Start: 2 @74575 has 197 MA's), (7, 74653), (9, 74677), (14, 74713),

Gene: Shifa_123 Start: 73471, Stop: 73641, Start Num: 2

Candidate Starts for Shifa_123:

(Start: 2 @73471 has 197 MA's), (7, 73549), (9, 73573), (14, 73609),

Gene: Shnickers_134 Start: 74539, Stop: 74709, Start Num: 2

Candidate Starts for Shnickers_134:

(Start: 2 @74539 has 197 MA's), (7, 74617), (9, 74641), (14, 74677),

Gene: Shrimp_134 Start: 75258, Stop: 75428, Start Num: 2

Candidate Starts for Shrimp_134:

(Start: 2 @75258 has 197 MA's), (7, 75336), (9, 75360), (14, 75396),

Gene: SilverDipper_136 Start: 74262, Stop: 74432, Start Num: 2

Candidate Starts for SilverDipper_136:

(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: SiwenD96_135 Start: 75705, Stop: 75875, Start Num: 2

Candidate Starts for SiwenD96_135:

(Start: 2 @75705 has 197 MA's), (7, 75783), (9, 75807), (14, 75843),

Gene: SmallFry_134 Start: 73764, Stop: 73934, Start Num: 2

Candidate Starts for SmallFry_134:

(Start: 2 @73764 has 197 MA's), (7, 73842), (9, 73866), (14, 73902),

Gene: SoilZilla_130 Start: 74538, Stop: 74708, Start Num: 2

Candidate Starts for SoilZilla_130:

(Start: 2 @74538 has 197 MA's), (7, 74616), (9, 74640), (14, 74676),

Gene: Spec_131 Start: 74304, Stop: 74474, Start Num: 2

Candidate Starts for Spec_131:

(Start: 2 @74304 has 197 MA's), (7, 74382), (9, 74406), (14, 74442),

Gene: Specks_139 Start: 76429, Stop: 76599, Start Num: 2

Candidate Starts for Specks_139:

(Start: 2 @76429 has 197 MA's), (7, 76507), (9, 76531), (14, 76567),

Gene: Sprinklers_130 Start: 73820, Stop: 73990, Start Num: 2

Candidate Starts for Sprinklers_130:

(Start: 2 @73820 has 197 MA's), (7, 73898), (9, 73922), (14, 73958),

Gene: Spud_133 Start: 75325, Stop: 75495, Start Num: 2

Candidate Starts for Spud_133:

(Start: 2 @75325 has 197 MA's), (7, 75403), (9, 75427), (14, 75463),

Gene: SrishMeg2525_133 Start: 75347, Stop: 75517, Start Num: 2

Candidate Starts for SrishMeg2525_133:

(Start: 2 @75347 has 197 MA's), (7, 75425), (9, 75449), (14, 75485),

Gene: StephanieG_132 Start: 76157, Stop: 76327, Start Num: 2

Candidate Starts for StephanieG_132:

(Start: 2 @76157 has 197 MA's), (7, 76235), (9, 76259), (14, 76295),

Gene: Stormageddon_45 Start: 46121, Stop: 46294, Start Num: 3
Candidate Starts for Stormageddon_45:
(1, 45959), (Start: 3 @46121 has 3 MA's), (5, 46163), (6, 46175), (10, 46232), (13, 46253), (16, 46271),

Gene: Stubby_127 Start: 73787, Stop: 73957, Start Num: 2
Candidate Starts for Stubby_127:
(Start: 2 @73787 has 197 MA's), (7, 73865), (9, 73889), (14, 73925),

Gene: StubbySaigey_138 Start: 74422, Stop: 74592, Start Num: 2
Candidate Starts for StubbySaigey_138:
(Start: 2 @74422 has 197 MA's), (7, 74500), (9, 74524), (12, 74554), (14, 74560),

Gene: Substance289_132 Start: 74057, Stop: 74227, Start Num: 2
Candidate Starts for Substance289_132:
(Start: 2 @74057 has 197 MA's), (7, 74135), (9, 74159), (14, 74195),

Gene: Tainan_137 Start: 75752, Stop: 75922, Start Num: 2
Candidate Starts for Tainan_137:
(Start: 2 @75752 has 197 MA's), (7, 75830), (9, 75854), (14, 75890),

Gene: Teardrop_133 Start: 73753, Stop: 73923, Start Num: 2
Candidate Starts for Teardrop_133:
(Start: 2 @73753 has 197 MA's), (7, 73831), (9, 73855), (14, 73891),

Gene: TinyTim_134 Start: 75005, Stop: 75175, Start Num: 2
Candidate Starts for TinyTim_134:
(Start: 2 @75005 has 197 MA's), (7, 75083), (9, 75107), (14, 75143),

Gene: Tonenili_147 Start: 77762, Stop: 77932, Start Num: 2
Candidate Starts for Tonenili_147:
(Start: 2 @77762 has 197 MA's), (4, 77801), (7, 77840), (9, 77864),

Gene: Tortoise16_131 Start: 74364, Stop: 74534, Start Num: 2
Candidate Starts for Tortoise16_131:
(Start: 2 @74364 has 197 MA's), (7, 74442), (9, 74466), (12, 74496), (14, 74502),

Gene: Trinitium_132 Start: 74188, Stop: 74358, Start Num: 2
Candidate Starts for Trinitium_132:
(Start: 2 @74188 has 197 MA's), (7, 74266), (9, 74290), (14, 74326),

Gene: Turret_130 Start: 73633, Stop: 73803, Start Num: 2
Candidate Starts for Turret_130:
(Start: 2 @73633 has 197 MA's), (7, 73711), (9, 73735), (14, 73771),

Gene: Tyke_134 Start: 75660, Stop: 75830, Start Num: 2
Candidate Starts for Tyke_134:
(Start: 2 @75660 has 197 MA's), (7, 75738), (9, 75762), (14, 75798),

Gene: ValleyTerrace_135 Start: 74262, Stop: 74432, Start Num: 2
Candidate Starts for ValleyTerrace_135:
(Start: 2 @74262 has 197 MA's), (7, 74340), (9, 74364), (12, 74394), (14, 74400),

Gene: Vortrix_146 Start: 77075, Stop: 77245, Start Num: 2
Candidate Starts for Vortrix_146:
(Start: 2 @77075 has 197 MA's), (4, 77114), (7, 77153), (9, 77177),

Gene: Wally_133 Start: 73783, Stop: 73953, Start Num: 2
Candidate Starts for Wally_133:
(Start: 2 @73783 has 197 MA's), (7, 73861), (9, 73885), (14, 73921),

Gene: Willis_135 Start: 75150, Stop: 75320, Start Num: 2
Candidate Starts for Willis_135:
(Start: 2 @75150 has 197 MA's), (7, 75228), (9, 75252), (14, 75288),

Gene: Yassified_131 Start: 73860, Stop: 74030, Start Num: 2
Candidate Starts for Yassified_131:
(Start: 2 @73860 has 197 MA's), (7, 73938), (9, 73962), (14, 73998),

Gene: YemiJoy2021_135 Start: 75242, Stop: 75412, Start Num: 2
Candidate Starts for YemiJoy2021_135:
(Start: 2 @75242 has 197 MA's), (7, 75320), (9, 75344), (14, 75380),

Gene: YoungMoneyMata_136 Start: 74888, Stop: 75058, Start Num: 2
Candidate Starts for YoungMoneyMata_136:
(Start: 2 @74888 has 197 MA's), (7, 74966), (9, 74990), (14, 75026),

Gene: Yucca_133 Start: 74924, Stop: 75094, Start Num: 2
Candidate Starts for Yucca_133:
(Start: 2 @74924 has 197 MA's), (7, 75002), (9, 75026), (14, 75062),

Gene: Zalkecks_135 Start: 74925, Stop: 75095, Start Num: 2
Candidate Starts for Zalkecks_135:
(Start: 2 @74925 has 197 MA's), (7, 75003), (9, 75027), (14, 75063),

Gene: Zeenon_135 Start: 75010, Stop: 75180, Start Num: 2
Candidate Starts for Zeenon_135:
(Start: 2 @75010 has 197 MA's), (7, 75088), (9, 75112), (14, 75148),

Gene: ZygoTaiga_132 Start: 76170, Stop: 76340, Start Num: 2
Candidate Starts for ZygoTaiga_132:
(Start: 2 @76170 has 197 MA's), (7, 76248), (9, 76272), (14, 76308),