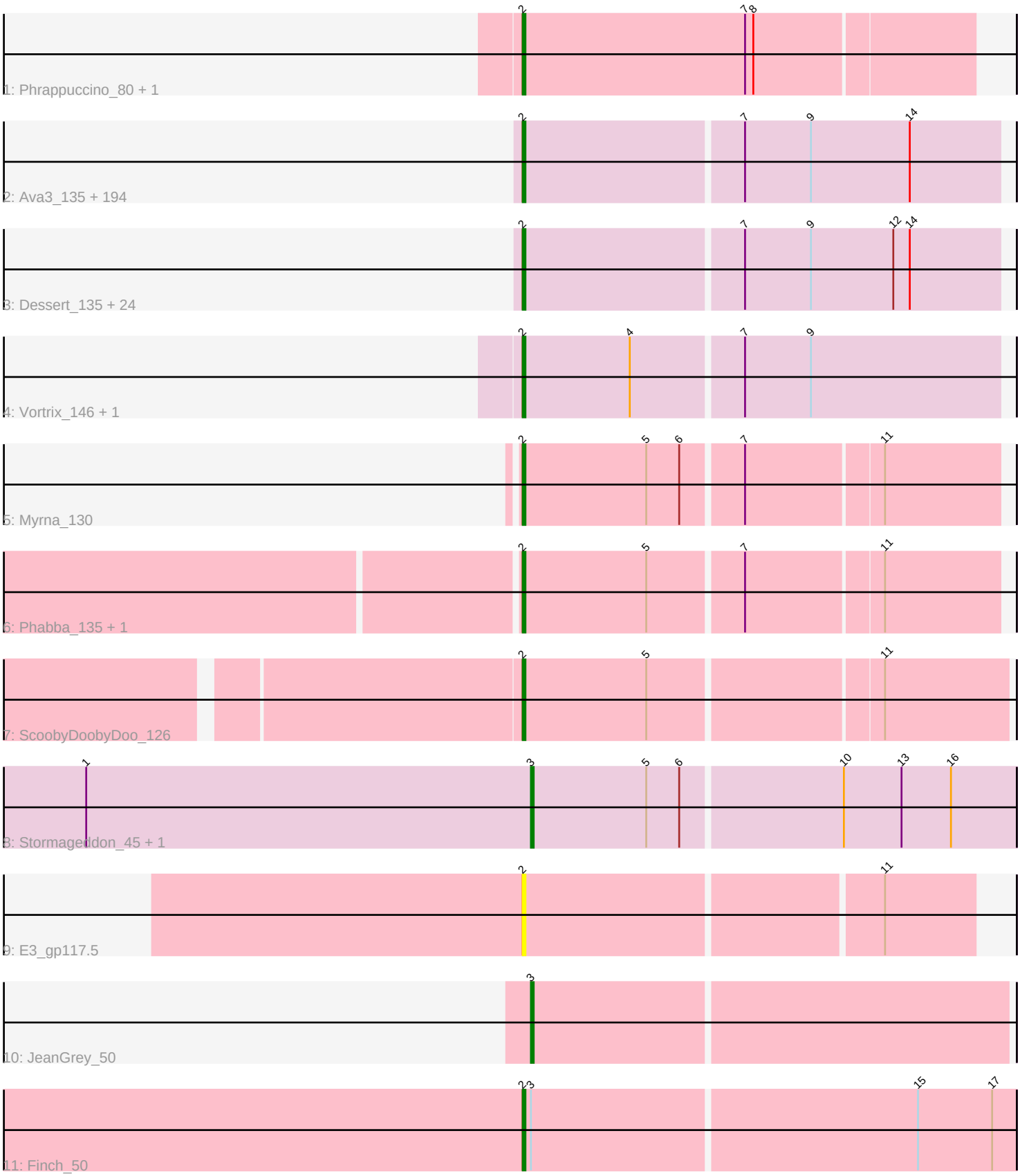
Pham 332474


1: Phrappuccino_80 + 1
2: Ava3_135 + 194
3: Dessert_135 + 24
4: Vortrix_146 + 1
5: Myrna_130
6: Phabba_135 + 1
7: ScoobyDoobyDoo_126
8: Stormageddon_45 + 1
9: E3_gp117.5
10: JeanGrey_50
11: Finch_50

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 332474 Report

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

Pham number 332474 has 233 members, 32 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, Iota_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, 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, Astraea_130, 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, Labradorite_135, 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 : Vortrix_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 198 of the 201 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, EggyFarm_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, Gamgam_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_135, 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, Vortrix_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: 198 of 201
• 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), EggyFarm_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), Janiyra_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_135 (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), Rabinovish_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), Tonenili_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 201
• 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 192 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 MA's), (11, 72057),

Gene: ET08_122 Start: 73927, Stop: 74097, Start Num: 2
Candidate Starts for ET08_122:
(Start: 2 @73927 has 198 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 198 MA's), (7, 74572), (9, 74596), (14, 74632),

Gene: EggyFarm_142 Start: 77212, Stop: 77382, Start Num: 2
Candidate Starts for EggyFarm_142:
(Start: 2 @77212 has 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 MA's), (7, 74575), (9, 74599), (14, 74635),

Gene: Labradorite_135 Start: 73226, Stop: 73396, Start Num: 2
Candidate Starts for Labradorite_135:
(Start: 2 @73226 has 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 MA's), (7, 75200), (9, 75224), (14, 75260),

Gene: LolaVinca_134 Start: 75465, Stop: 75635, Start Num: 2
Candidate Starts for LolaVinca_134:
(Start: 2 @75465 has 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 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 198 MA's), (7, 76248), (9, 76272), (14, 76308),