Pham 341785


1: Ronan_62 + 27
2: PurduePete_68 + 114
3: Cane17_58 + 29
4: Bowman_70 + 8
5: BigCity_74 + 2
6: Blubba_59
7: Moby_60 + 1
8: Maturis_65 + 1
9: JigglyPuff_73 + 4
10: LinStu_68 + 2
11: Issimir_68
12: I3_72
13: ScoobyDoobyDoo_47
14: Myrna_53

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 341785 Report

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

Pham number 341785 has 202 members, 29 are drafts.

Phages represented in each track:
• Track 1 : Ronan_62, BobaPhatt_66, EasyJones_70, Melpomini_63, Shaqnato_62, ErnieJ_66, Halldule_61, Pinkcreek_60, Blackdragon_63, Yassified_65, DirtMonster_63, LRRHood_64, Alice_62, Grungle_58, Lukilu_60, Koguma_65, Morizzled23_70, Bezza_63, Astraea_69, Roots515_67, BadAgartude_67, Napoleon13_65, Rabinovish_67, JulietS_62, Sauce_69, Shifa_60, Stubby_63, Phox_66
• Track 2 : PurduePete_68, LolaVinca_71, FoxtrotP1_69, Littleton_68, Kamryn_68, Bipolarisk_68, Guwapp_67, Ading_68, Delilah_69, Dessert_69, StubbySaigey_69, CindyLou_69, Capablanca_70, Salacia_71, Gabriel_70, Jedediah_70, Willis_69, FudgeTart_70, Spec_68, Derek_68, Jezreel_67, Tyke_70, Chomp_67, ValleyTerrace_68, DrPhinkDaddy_68, ShiaLabeouf_68, Momo_67, Belieber_62, Ngannou_63, Fludd_68, EmmaElysia_67, Erdmann_69, SilverDipper_69, Flabslab_65, Naval22_76, BananaFence_69, Gizmo_72, Delylah_71, Shelob_71, Phlegm_70, McWolfish_67, Jaygup_68, Daffodil_72, GlutenPhree_69, BackyardAgain_65, Jemmno_68, Essence_67, Labradorite_70, Caravan_65, Maby2021_69, Naija_67, Mikro_66, Loanshark_69, DTDevon_69, Fixie_61, ChaylaJr_64, Pivoine_67, YoungMoneyMata_68, Primadonna_64, Nidhogg_69, Ghost_67, ZygoTaiga_68, McGee_68, Fongie_67, Amataga_68, Zeenon_70, SoilZilla_64, Gamgam_68, Mangeria_72, Izajani_69, Yucca_68, OrediggerDelux_70, MoMoMixon_69, SVoro_67, Atlantean_67, Asterius_70, Burrough_68, Rahel_69, Rizal_66, Maguvora_74, JPickles_67, LifeSavor_67, MikeLiesIn_69, EmToTheThree_72, Megamind_68, Bread_68, Patter_68, Matsumoto_67, YemiJoy2021_69, Tortoise16_66, SrishMeg2525_68, Blackbrain_63, Turret_63, SiwenD96_68, TinyTim_69, Bonray_69, SmallFry_68, Shnickers_68, Quasimodo_68, Dietrick_62, Khaleesi_68, Zalkecks_70, NedWong_70, JustHall_64, InterFolia_78, Norm_69, Phusco_68, Latch_68, ParkTD_69, Substance289_64, InigoMontoya_69, ScottMcG_66, Ewok_69, Darko_68, Janiyra_70
• Track 3 : Cane17_58, Cactojaque_63, Domi_62, StephanieG_68, Colt_60, RoMag_63, Duckfeet_61, Lethe_67, Chargie21_64, Ablatia_65, Rocha_66, LookingGlass_70, QBert_63, BeanWater_62, JayJay_75, Teardrop_68, IkeLoa_63, Adlitam_68, Iota_63, Jessibeth14_67, Lee7_70, CharlieB_66, Montpel_65, ChickenPhender_64, NuevoMundo_74, Sprinklers_65, Lunareta_65, Specks_74, Basquiat_64, Trinitium_64
• Track 4 : Bowman_70, PharkleMinkus_75, Puhon_73, Pupusa_73, LordLeafolot_75, FrayBell_75, Cleatunium_64, GoldenSnow_73, Tainan_73
• Track 5 : BigCity_74, Grasshills_74, EggyFarm_74
• Track 6 : Blubba_59

• Track 7 : Moby_60, Moiqah_60
• Track 8 : Maturis_65, DeejaClivia_59
• Track 9 : JigglyPuff_73, Demodog_73, NoodleTree_69, Bigswole_75, Concombre_74
• Track 10 : LinStu_68, HyRo_63, Sebata_69
• Track 11 : Issimir_68
• Track 12 : I3_72
• Track 13 : ScoobyDoobyDoo_47
• Track 14 : Myrna_53

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

The start number called the most often in the published annotations is 6, it was called in 173 of the 173 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_65, Ading_68, Adlitam_68, Alice_62, Amataga_68, Asterius_70, Astraea_69, Atlantean_67, BackyardAgain_65, BadAgartude_67, BananaFence_69, Basquiat_64, BeanWater_62, Belieber_62, Bezza_63, BigCity_74, Bigswole_75, Bipolarisk_68, Blackbrain_63, Blackdragon_63, Blubba_59, BobaPhatt_66, Bonray_69, Bowman_70, Bread_68, Burrough_68, Cactojaque_63, Cane17_58, Capablanca_70, Caravan_65, Chargie21_64, CharlieB_66, ChaylaJr_64, ChickenPhender_64, Chomp_67, CindyLou_69, Cleatunium_64, Colt_60, Concombre_74, DTDevon_69, Daffodil_72, Darko_68, DeejaClivia_59, Delilah_69, Delylah_71, Demodog_73, Derek_68, Dessert_69, Dietrick_62, DirtMonster_63, Domi_62, DrPhinkDaddy_68, Duckfeet_61, EasyJones_70, EggyFarm_74, EmToTheThree_72, EmmaElysia_67, Erdmann_69, ErnieJ_66, Essence_67, Ewok_69, Fixie_61, Flabslab_65, Fludd_68, Fongie_67, FoxtrotP1_69, FrayBell_75, FudgeTart_70, Gabriel_70, Gamgam_68, Ghost_67, Gizmo_72, GlutenPhree_69, GoldenSnow_73, Grasshills_74, Grungle_58, Guwapp_67, Halldule_61, HyRo_63, I3_72, IkeLoa_63, InigoMontoya_69, InterFolia_78, Iota_63, Issimir_68, Izajani_69, JPickles_67, Janiyra_70, JayJay_75, Jaygup_68, Jedediah_70, Jemmno_68, Jessibeth14_67, Jezreel_67, JigglyPuff_73, JulietS_62, JustHall_64, Kamryn_68, Khaleesi_68, Koguma_65, LRRHood_64, Labradorite_70, Latch_68, Lee7_70, Lethe_67, LifeSavor_67, LinStu_68, Littleton_68, Loanshark_69, LolaVinca_71, LookingGlass_70, LordLeafolot_75, Lukilu_60, Lunareta_65, Maby2021_69, Maguvora_74, Mangeria_72, Matsumoto_67, Maturis_65, McGee_68, McWolfish_67, Megamind_68, Melpomini_63, MikeLiesIn_69, Mikro_66, MoMoMixon_69, Moby_60, Moiqah_60, Momo_67, Montpel_65, Morizzled23_70, Myrna_53, Naija_67, Napoleon13_65, Naval22_76, NedWong_70, Ngannou_63, Nidhogg_69, NoodleTree_69, Norm_69, NuevoMundo_74, OrediggerDelux_70, ParkTD_69, Patter_68, PharkleMinkus_75, Phlegm_70, Phox_66, Phusco_68, Pinkcreek_60, Pivoine_67, Primadonna_64, Puhon_73, Pupusa_73, PurduePete_68, QBert_63, Quasimodo_68, Rabinovish_67, Rahel_69, Rizal_66, RoMag_63, Rocha_66, Ronan_62, Roots515_67, SVoro_67, Salacia_71, Sauce_69, ScoobyDoobyDoo_47, ScottMcG_66, Sebata_69, Shaqnato_62, Shelob_71, ShiaLabeouf_68, Shifa_60, Shnickers_68, SilverDipper_69, SiwenD96_68, SmallFry_68, SoilZilla_64, Spec_68, Specks_74, Sprinklers_65, SrishMeg2525_68, StephanieG_68, StubbySaigey_69, Stubby_63, Substance289_64, Tainan_73, Teardrop_68, TinyTim_69, Tortoise16_66, Trinitium_64, Turret_63, Tyke_70, ValleyTerrace_68, Willis_69, Yassified_65,

YemiJoy2021_69, YoungMoneyMata_68, Yucca_68, Zalkecks_70, Zeenon_70, ZygoTaiga_68,

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

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

Summary by start number:

Start 6:
• Found in 202 of 202 (100.0%) of genes in pham
• Manual Annotations of this start: 173 of 173
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ablatia_65 (C1), Ading_68 (C1), Adlitam_68 (C1), Alice_62 (C1), Amataga_68 (C1), Asterius_70 (C1), Astraea_69 (C1), Atlantean_67 (C1), BackyardAgain_65 (C1), BadAgartude_67 (C1), BananaFence_69 (C1), Basquiat_64 (C1), BeanWater_62 (C1), Belieber_62 (C1), Bezza_63 (C1), BigCity_74 (C1), Bigswole_75 (C1), Bipolarisk_68 (C1), Blackbrain_63 (C1), Blackdragon_63 (C1), Blubba_59 (C1), BobaPhatt_66 (C1), Bonray_69 (C1), Bowman_70 (C1), Bread_68 (C1), Burrough_68 (C1), Cactojaque_63 (C1), Cane17_58 (C1), Capablanca_70 (C1), Caravan_65 (C1), Chargie21_64 (C1), CharlieB_66 (C1), ChaylaJr_64 (C1), ChickenPhender_64 (C1), Chomp_67 (C1), CindyLou_69 (C1), Cleatunium_64 (C1), Colt_60 (C1), Concombre_74 (C1), DTDevon_69 (C1), Daffodil_72 (C1), Darko_68 (C1), DeejaClivia_59 (C1), Delilah_69 (C1), Delylah_71 (C1), Demodog_73 (C1), Derek_68 (C1), Dessert_69 (C1), Dietrick_62 (C1), DirtMonster_63 (C1), Domi_62 (C1), DrPhinkDaddy_68 (C1), Duckfeet_61 (C1), EasyJones_70 (C1), EggyFarm_74 (C1), EmToTheThree_72 (C1), EmmaElysia_67 (C1), Erdmann_69 (C1), ErnieJ_66 (C1), Essence_67 (C1), Ewok_69 (C1), Fixie_61 (C1), Flabslab_65 (C1), Fludd_68 (C1), Fongie_67 (C1), FoxtrotP1_69 (C1), FrayBell_75 (C1), FudgeTart_70 (C1), Gabriel_70 (C1), Gamgam_68 (C1), Ghost_67 (C1), Gizmo_72 (C1), GlutenPhree_69 (C1), GoldenSnow_73 (C1), Grasshills_74 (C1), Grungle_58 (C1), Guwapp_67 (C1), Halldule_61 (C1), HyRo_63 (C1), I3_72 (C1), IkeLoa_63 (C1), InigoMontoya_69 (C1), InterFolia_78 (C1), Iota_63 (C1), Issimir_68 (C1), Izajani_69 (C1), JPickles_67 (C1), Janiyra_70 (C1), JayJay_75 (C1), Jaygup_68 (C1), Jedediah_70 (C1), Jemmno_68 (C1), Jessibeth14_67 (C1), Jezreel_67 (C1), JigglyPuff_73 (C1), JulietS_62 (C1), JustHall_64 (C1), Kamryn_68 (C1), Khaleesi_68 (C1), Koguma_65 (C1), LRRHood_64 (C1), Labradorite_70 (C1), Latch_68 (C1), Lee7_70 (C1), Lethe_67 (C1), LifeSavor_67 (C1), LinStu_68 (C1), Littleton_68 (C1), Loanshark_69 (C1), LolaVinca_71 (C1), LookingGlass_70 (C1), LordLeafolot_75 (C1), Lukilu_60 (C1), Lunareta_65 (C1), Maby2021_69 (C1), Maguvora_74 (C1), Mangeria_72 (C1), Matsumoto_67 (C1), Maturis_65 (C1), McGee_68 (C1), McWolfish_67 (C1), Megamind_68 (C1), Melpomini_63 (C1), MikeLiesIn_69 (C1), Mikro_66 (C1), MoMoMixon_69 (C1), Moby_60 (C1), Moiqah_60 (C1), Momo_67 (C1), Montpel_65 (C1), Morizzled23_70 (C1), Myrna_53 (C2), Naija_67 (C1), Napoleon13_65 (C1), Naval22_76 (C1), NedWong_70 (C1), Ngannou_63 (C1), Nidhogg_69 (C1), NoodleTree_69 (C1), Norm_69 (C1), NuevoMundo_74 (C1), OrediggerDelux_70 (C1), ParkTD_69 (C1), Patter_68 (C1), PharkleMinkus_75 (C1), Phlegm_70 (C1), Phox_66 (C1), Phusco_68 (C1), Pinkcreek_60 (C1), Pivoine_67 (C1), Primadonna_64 (C1), Puhon_73 (C1), Pupusa_73 (C1), PurduePete_68 (C1), QBert_63 (C1), Quasimodo_68 (C1), Rabinovish_67 (C1), Rahel_69 (C1), Rizal_66

(C1), RoMag_63 (C1), Rocha_66 (C1), Ronan_62 (C1), Roots515_67 (C1), SVoro_67 (C1), Salacia_71 (C1), Sauce_69 (C1), ScoobyDoobyDoo_47 (C2), ScottMcG_66 (C1), Sebata_69 (C1), Shaqnato_62 (C1), Shelob_71 (C1), ShiaLabeouf_68 (C1), Shifa_60 (C1), Shnickers_68 (C1), SilverDipper_69 (C1), SiwenD96_68 (C1), SmallFry_68 (C1), SoilZilla_64 (C1), Spec_68 (C1), Specks_74 (C1), Sprinklers_65 (C1), SrishMeg2525_68 (C1), StephanieG_68 (C1), StubbySaigey_69 (C1), Stubby_63 (C1), Substance289_64 (C1), Tainan_73 (C1), Teardrop_68 (C1), TinyTim_69 (C1), Tortoise16_66 (C1), Trinitium_64 (C1), Turret_63 (C1), Tyke_70 (C1), ValleyTerrace_68 (C1), Willis_69 (C1), Yassified_65 (C1), YemiJoy2021_69 (C1), YoungMoneyMata_68 (C1), Yucca_68 (C1), Zalkecks_70 (C1), Zeenon_70 (C1), ZygoTaiga_68 (C1),

Summary by clusters:

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

Info for manual annotations of cluster C1:
•Start number 6 was manually annotated 171 times for cluster C1.

Info for manual annotations of cluster C2:
•Start number 6 was manually annotated 2 times for cluster C2.

Gene Information:

Gene: Ablatia_65 Start: 21533, Stop: 21739, Start Num: 6
Candidate Starts for Ablatia_65:
(1, 21326), (2, 21338), (3, 21404), (Start: 6 @21533 has 173 MA's), (7, 21563), (11, 21683), (12, 21710), (14, 21716),

Gene: Ading_68 Start: 21575, Stop: 21781, Start Num: 6
Candidate Starts for Ading_68:
(3, 21446), (Start: 6 @21575 has 173 MA's), (7, 21605), (11, 21725), (12, 21752), (14, 21758),

Gene: Adlitam_68 Start: 21592, Stop: 21798, Start Num: 6
Candidate Starts for Adlitam_68:
(1, 21385), (2, 21397), (3, 21463), (Start: 6 @21592 has 173 MA's), (7, 21622), (11, 21742), (12, 21769), (14, 21775),

Gene: Alice_62 Start: 21307, Stop: 21513, Start Num: 6
Candidate Starts for Alice_62:
(Start: 6 @21307 has 173 MA's), (7, 21337), (11, 21457), (12, 21484), (14, 21490),

Gene: Amataga_68 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Amataga_68:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Asterius_70 Start: 21991, Stop: 22197, Start Num: 6
Candidate Starts for Asterius_70:
(3, 21862), (Start: 6 @21991 has 173 MA's), (7, 22021), (11, 22141), (12, 22168), (14, 22174),

Gene: Astraea_69 Start: 22710, Stop: 22916, Start Num: 6

Candidate Starts for Astraea_69:
(Start: 6 @22710 has 173 MA's), (7, 22740), (11, 22860), (12, 22887), (14, 22893),

Gene: Atlantean_67 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Atlantean_67:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: BackyardAgain_65 Start: 21527, Stop: 21733, Start Num: 6
Candidate Starts for BackyardAgain_65:
(3, 21398), (Start: 6 @21527 has 173 MA's), (7, 21557), (11, 21677), (12, 21704), (14, 21710),

Gene: BadAgartude_67 Start: 23051, Stop: 23257, Start Num: 6
Candidate Starts for BadAgartude_67:
(Start: 6 @23051 has 173 MA's), (7, 23081), (11, 23201), (12, 23228), (14, 23234),

Gene: BananaFence_69 Start: 22534, Stop: 22740, Start Num: 6
Candidate Starts for BananaFence_69:
(3, 22405), (Start: 6 @22534 has 173 MA's), (7, 22564), (11, 22684), (12, 22711), (14, 22717),

Gene: Basquiat_64 Start: 21078, Stop: 21284, Start Num: 6
Candidate Starts for Basquiat_64:
(1, 20871), (2, 20883), (3, 20949), (Start: 6 @21078 has 173 MA's), (7, 21108), (11, 21228), (12, 21255), (14, 21261),

Gene: BeanWater_62 Start: 22000, Stop: 22206, Start Num: 6
Candidate Starts for BeanWater_62:
(1, 21793), (2, 21805), (3, 21871), (Start: 6 @22000 has 173 MA's), (7, 22030), (11, 22150), (12, 22177), (14, 22183),

Gene: Belieber_62 Start: 20948, Stop: 21154, Start Num: 6
Candidate Starts for Belieber_62:
(3, 20819), (Start: 6 @20948 has 173 MA's), (7, 20978), (11, 21098), (12, 21125), (14, 21131),

Gene: Bezza_63 Start: 21481, Stop: 21687, Start Num: 6
Candidate Starts for Bezza_63:
(Start: 6 @21481 has 173 MA's), (7, 21511), (11, 21631), (12, 21658), (14, 21664),

Gene: BigCity_74 Start: 24148, Stop: 24351, Start Num: 6
Candidate Starts for BigCity_74:
(4, 24025), (5, 24070), (Start: 6 @24148 has 173 MA's), (7, 24178), (11, 24298), (12, 24325), (15, 24343),

Gene: Bigswole_75 Start: 25182, Stop: 25385, Start Num: 6
Candidate Starts for Bigswole_75:
(1, 24975), (2, 24987), (3, 25053), (Start: 6 @25182 has 173 MA's), (7, 25212), (11, 25332), (12, 25359), (15, 25377),

Gene: Bipolarisk_68 Start: 22361, Stop: 22567, Start Num: 6
Candidate Starts for Bipolarisk_68:
(3, 22232), (Start: 6 @22361 has 173 MA's), (7, 22391), (11, 22511), (12, 22538), (14, 22544),

Gene: Blackbrain_63 Start: 20895, Stop: 21101, Start Num: 6
Candidate Starts for Blackbrain_63:

(3, 20766), (Start: 6 @20895 has 173 MA's), (7, 20925), (11, 21045), (12, 21072), (14, 21078),

Gene: Blackdragon_63 Start: 21519, Stop: 21725, Start Num: 6
Candidate Starts for Blackdragon_63:
(Start: 6 @21519 has 173 MA's), (7, 21549), (11, 21669), (12, 21696), (14, 21702),

Gene: Blubba_59 Start: 19764, Stop: 19970, Start Num: 6
Candidate Starts for Blubba_59:
(4, 19641), (5, 19686), (Start: 6 @19764 has 173 MA's), (7, 19794), (11, 19914), (12, 19941), (14, 19947),

Gene: BobaPhatt_66 Start: 21224, Stop: 21430, Start Num: 6
Candidate Starts for BobaPhatt_66:
(Start: 6 @21224 has 173 MA's), (7, 21254), (11, 21374), (12, 21401), (14, 21407),

Gene: Bonray_69 Start: 22638, Stop: 22844, Start Num: 6
Candidate Starts for Bonray_69:
(3, 22509), (Start: 6 @22638 has 173 MA's), (7, 22668), (11, 22788), (12, 22815), (14, 22821),

Gene: Bowman_70 Start: 22650, Stop: 22853, Start Num: 6
Candidate Starts for Bowman_70:
(3, 22521), (Start: 6 @22650 has 173 MA's), (7, 22680), (11, 22800), (12, 22827), (15, 22845),

Gene: Bread_68 Start: 22331, Stop: 22537, Start Num: 6
Candidate Starts for Bread_68:
(3, 22202), (Start: 6 @22331 has 173 MA's), (7, 22361), (11, 22481), (12, 22508), (14, 22514),

Gene: Burrough_68 Start: 22364, Stop: 22570, Start Num: 6
Candidate Starts for Burrough_68:
(3, 22235), (Start: 6 @22364 has 173 MA's), (7, 22394), (11, 22514), (12, 22541), (14, 22547),

Gene: Cactojaque_63 Start: 21002, Stop: 21208, Start Num: 6
Candidate Starts for Cactojaque_63:
(1, 20795), (2, 20807), (3, 20873), (Start: 6 @21002 has 173 MA's), (7, 21032), (11, 21152), (12, 21179), (14, 21185),

Gene: Cane17_58 Start: 19374, Stop: 19580, Start Num: 6
Candidate Starts for Cane17_58:
(1, 19167), (2, 19179), (3, 19245), (Start: 6 @19374 has 173 MA's), (7, 19404), (11, 19524), (12, 19551), (14, 19557),

Gene: Capablanca_70 Start: 22721, Stop: 22927, Start Num: 6
Candidate Starts for Capablanca_70:
(3, 22592), (Start: 6 @22721 has 173 MA's), (7, 22751), (11, 22871), (12, 22898), (14, 22904),

Gene: Caravan_65 Start: 21709, Stop: 21915, Start Num: 6
Candidate Starts for Caravan_65:
(3, 21580), (Start: 6 @21709 has 173 MA's), (7, 21739), (11, 21859), (12, 21886), (14, 21892),

Gene: Chargie21_64 Start: 21078, Stop: 21284, Start Num: 6
Candidate Starts for Chargie21_64:
(1, 20871), (2, 20883), (3, 20949), (Start: 6 @21078 has 173 MA's), (7, 21108), (11, 21228), (12, 21255), (14, 21261),

Gene: CharlieB_66 Start: 21235, Stop: 21441, Start Num: 6
Candidate Starts for CharlieB_66:
(1, 21028), (2, 21040), (3, 21106), (Start: 6 @21235 has 173 MA's), (7, 21265), (11, 21385), (12, 21412), (14, 21418),

Gene: ChaylaJr_64 Start: 21109, Stop: 21315, Start Num: 6
Candidate Starts for ChaylaJr_64:
(3, 20980), (Start: 6 @21109 has 173 MA's), (7, 21139), (11, 21259), (12, 21286), (14, 21292),

Gene: ChickenPhender_64 Start: 21126, Stop: 21332, Start Num: 6
Candidate Starts for ChickenPhender_64:
(1, 20919), (2, 20931), (3, 20997), (Start: 6 @21126 has 173 MA's), (7, 21156), (11, 21276), (12, 21303), (14, 21309),

Gene: Chomp_67 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Chomp_67:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: CindyLou_69 Start: 22121, Stop: 22327, Start Num: 6
Candidate Starts for CindyLou_69:
(3, 21992), (Start: 6 @22121 has 173 MA's), (7, 22151), (11, 22271), (12, 22298), (14, 22304),

Gene: Cleatunium_64 Start: 21746, Stop: 21949, Start Num: 6
Candidate Starts for Cleatunium_64:
(3, 21617), (Start: 6 @21746 has 173 MA's), (7, 21776), (11, 21896), (12, 21923), (15, 21941),

Gene: Colt_60 Start: 20360, Stop: 20566, Start Num: 6
Candidate Starts for Colt_60:
(1, 20153), (2, 20165), (3, 20231), (Start: 6 @20360 has 173 MA's), (7, 20390), (11, 20510), (12, 20537), (14, 20543),

Gene: Concombre_74 Start: 24709, Stop: 24912, Start Num: 6
Candidate Starts for Concombre_74:
(1, 24502), (2, 24514), (3, 24580), (Start: 6 @24709 has 173 MA's), (7, 24739), (11, 24859), (12, 24886), (15, 24904),

Gene: DTDevon_69 Start: 22760, Stop: 22966, Start Num: 6
Candidate Starts for DTDevon_69:
(3, 22631), (Start: 6 @22760 has 173 MA's), (7, 22790), (11, 22910), (12, 22937), (14, 22943),

Gene: Daffodil_72 Start: 22650, Stop: 22856, Start Num: 6
Candidate Starts for Daffodil_72:
(3, 22521), (Start: 6 @22650 has 173 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Darko_68 Start: 22503, Stop: 22709, Start Num: 6
Candidate Starts for Darko_68:
(3, 22374), (Start: 6 @22503 has 173 MA's), (7, 22533), (11, 22653), (12, 22680), (14, 22686),

Gene: DeejaClivia_59 Start: 19751, Stop: 19957, Start Num: 6
Candidate Starts for DeejaClivia_59:
(Start: 6 @19751 has 173 MA's), (7, 19781), (11, 19901), (12, 19928), (14, 19934),

Gene: Delilah_69 Start: 22650, Stop: 22856, Start Num: 6
Candidate Starts for Delilah_69:
(3, 22521), (Start: 6 @22650 has 173 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Delylah_71 Start: 22428, Stop: 22634, Start Num: 6
Candidate Starts for Delylah_71:
(3, 22299), (Start: 6 @22428 has 173 MA's), (7, 22458), (11, 22578), (12, 22605), (14, 22611),

Gene: Demodog_73 Start: 24709, Stop: 24912, Start Num: 6
Candidate Starts for Demodog_73:
(1, 24502), (2, 24514), (3, 24580), (Start: 6 @24709 has 173 MA's), (7, 24739), (11, 24859), (12, 24886), (15, 24904),

Gene: Derek_68 Start: 21927, Stop: 22133, Start Num: 6
Candidate Starts for Derek_68:
(3, 21798), (Start: 6 @21927 has 173 MA's), (7, 21957), (11, 22077), (12, 22104), (14, 22110),

Gene: Dessert_69 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Dessert_69:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Dietrick_62 Start: 20768, Stop: 20974, Start Num: 6
Candidate Starts for Dietrick_62:
(3, 20639), (Start: 6 @20768 has 173 MA's), (7, 20798), (11, 20918), (12, 20945), (14, 20951),

Gene: DirtMonster_63 Start: 22094, Stop: 22300, Start Num: 6
Candidate Starts for DirtMonster_63:
(Start: 6 @22094 has 173 MA's), (7, 22124), (11, 22244), (12, 22271), (14, 22277),

Gene: Domi_62 Start: 21538, Stop: 21744, Start Num: 6
Candidate Starts for Domi_62:
(1, 21331), (2, 21343), (3, 21409), (Start: 6 @21538 has 173 MA's), (7, 21568), (11, 21688), (12, 21715), (14, 21721),

Gene: DrPhinkDaddy_68 Start: 22702, Stop: 22908, Start Num: 6
Candidate Starts for DrPhinkDaddy_68:
(3, 22573), (Start: 6 @22702 has 173 MA's), (7, 22732), (11, 22852), (12, 22879), (14, 22885),

Gene: Duckfeet_61 Start: 21202, Stop: 21408, Start Num: 6
Candidate Starts for Duckfeet_61:
(1, 20995), (2, 21007), (3, 21073), (Start: 6 @21202 has 173 MA's), (7, 21232), (11, 21352), (12, 21379), (14, 21385),

Gene: EasyJones_70 Start: 22253, Stop: 22459, Start Num: 6
Candidate Starts for EasyJones_70:
(Start: 6 @22253 has 173 MA's), (7, 22283), (11, 22403), (12, 22430), (14, 22436),

Gene: EggyFarm_74 Start: 24148, Stop: 24351, Start Num: 6
Candidate Starts for EggyFarm_74:
(4, 24025), (5, 24070), (Start: 6 @24148 has 173 MA's), (7, 24178), (11, 24298), (12, 24325), (15, 24343),

Gene: EmToTheThree_72 Start: 24122, Stop: 24328, Start Num: 6

Candidate Starts for EmToTheThree_72:
(3, 23993), (Start: 6 @24122 has 173 MA's), (7, 24152), (11, 24272), (12, 24299), (14, 24305),

Gene: EmmaElysia_67 Start: 21166, Stop: 21372, Start Num: 6
Candidate Starts for EmmaElysia_67:
(3, 21037), (Start: 6 @21166 has 173 MA's), (7, 21196), (11, 21316), (12, 21343), (14, 21349),

Gene: Erdmann_69 Start: 22650, Stop: 22856, Start Num: 6
Candidate Starts for Erdmann_69:
(3, 22521), (Start: 6 @22650 has 173 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: ErnieJ_66 Start: 21597, Stop: 21803, Start Num: 6
Candidate Starts for ErnieJ_66:
(Start: 6 @21597 has 173 MA's), (7, 21627), (11, 21747), (12, 21774), (14, 21780),

Gene: Essence_67 Start: 21450, Stop: 21656, Start Num: 6
Candidate Starts for Essence_67:
(3, 21321), (Start: 6 @21450 has 173 MA's), (7, 21480), (11, 21600), (12, 21627), (14, 21633),

Gene: Ewok_69 Start: 22653, Stop: 22859, Start Num: 6
Candidate Starts for Ewok_69:
(3, 22524), (Start: 6 @22653 has 173 MA's), (7, 22683), (11, 22803), (12, 22830), (14, 22836),

Gene: Fixie_61 Start: 20795, Stop: 21001, Start Num: 6
Candidate Starts for Fixie_61:
(3, 20666), (Start: 6 @20795 has 173 MA's), (7, 20825), (11, 20945), (12, 20972), (14, 20978),

Gene: Flabslab_65 Start: 21672, Stop: 21878, Start Num: 6
Candidate Starts for Flabslab_65:
(3, 21543), (Start: 6 @21672 has 173 MA's), (7, 21702), (11, 21822), (12, 21849), (14, 21855),

Gene: Fludd_68 Start: 21525, Stop: 21731, Start Num: 6
Candidate Starts for Fludd_68:
(3, 21396), (Start: 6 @21525 has 173 MA's), (7, 21555), (11, 21675), (12, 21702), (14, 21708),

Gene: Fongie_67 Start: 22869, Stop: 23075, Start Num: 6
Candidate Starts for Fongie_67:
(3, 22740), (Start: 6 @22869 has 173 MA's), (7, 22899), (11, 23019), (12, 23046), (14, 23052),

Gene: FoxtrotP1_69 Start: 23037, Stop: 23243, Start Num: 6
Candidate Starts for FoxtrotP1_69:
(3, 22908), (Start: 6 @23037 has 173 MA's), (7, 23067), (11, 23187), (12, 23214), (14, 23220),

Gene: FrayBell_75 Start: 24164, Stop: 24367, Start Num: 6
Candidate Starts for FrayBell_75:
(3, 24035), (Start: 6 @24164 has 173 MA's), (7, 24194), (11, 24314), (12, 24341), (15, 24359),

Gene: FudgeTart_70 Start: 22572, Stop: 22778, Start Num: 6
Candidate Starts for FudgeTart_70:
(3, 22443), (Start: 6 @22572 has 173 MA's), (7, 22602), (11, 22722), (12, 22749), (14, 22755),

Gene: Gabriel_70 Start: 21829, Stop: 22035, Start Num: 6
Candidate Starts for Gabriel_70:

(3, 21700), (Start: 6 @21829 has 173 MA's), (7, 21859), (11, 21979), (12, 22006), (14, 22012),

Gene: Gamgam_68 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Gamgam_68:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Ghost_67 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Ghost_67:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Gizmo_72 Start: 22333, Stop: 22539, Start Num: 6
Candidate Starts for Gizmo_72:
(3, 22204), (Start: 6 @22333 has 173 MA's), (7, 22363), (11, 22483), (12, 22510), (14, 22516),

Gene: GlutenPhree_69 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for GlutenPhree_69:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: GoldenSnow_73 Start: 24163, Stop: 24366, Start Num: 6
Candidate Starts for GoldenSnow_73:
(3, 24034), (Start: 6 @24163 has 173 MA's), (7, 24193), (11, 24313), (12, 24340), (15, 24358),

Gene: Grasshills_74 Start: 24148, Stop: 24351, Start Num: 6
Candidate Starts for Grasshills_74:
(4, 24025), (5, 24070), (Start: 6 @24148 has 173 MA's), (7, 24178), (11, 24298), (12, 24325), (15, 24343),

Gene: Grungle_58 Start: 19785, Stop: 19991, Start Num: 6
Candidate Starts for Grungle_58:
(Start: 6 @19785 has 173 MA's), (7, 19815), (11, 19935), (12, 19962), (14, 19968),

Gene: Guwapp_67 Start: 21691, Stop: 21897, Start Num: 6
Candidate Starts for Guwapp_67:
(3, 21562), (Start: 6 @21691 has 173 MA's), (7, 21721), (11, 21841), (12, 21868), (14, 21874),

Gene: Halldule_61 Start: 20362, Stop: 20568, Start Num: 6
Candidate Starts for Halldule_61:
(Start: 6 @20362 has 173 MA's), (7, 20392), (11, 20512), (12, 20539), (14, 20545),

Gene: HyRo_63 Start: 21714, Stop: 21920, Start Num: 6
Candidate Starts for HyRo_63:
(Start: 6 @21714 has 173 MA's), (7, 21744), (11, 21864), (12, 21891), (14, 21897),

Gene: I3_72 Start: 22560, Stop: 22766, Start Num: 6
Candidate Starts for I3_72:
(4, 22437), (Start: 6 @22560 has 173 MA's), (7, 22590), (11, 22710), (12, 22737), (14, 22743),

Gene: IkeLoa_63 Start: 21335, Stop: 21541, Start Num: 6
Candidate Starts for IkeLoa_63:
(1, 21128), (2, 21140), (3, 21206), (Start: 6 @21335 has 173 MA's), (7, 21365), (11, 21485), (12, 21512), (14, 21518),

Gene: InigoMontoya_69 Start: 21557, Stop: 21763, Start Num: 6

Candidate Starts for InigoMontoya_69:
(3, 21428), (Start: 6 @21557 has 173 MA's), (7, 21587), (11, 21707), (12, 21734), (14, 21740),

Gene: InterFolia_78 Start: 25102, Stop: 25308, Start Num: 6
Candidate Starts for InterFolia_78:
(3, 24973), (Start: 6 @25102 has 173 MA's), (7, 25132), (11, 25252), (12, 25279), (14, 25285),

Gene: Iota_63 Start: 21691, Stop: 21897, Start Num: 6
Candidate Starts for Iota_63:
(1, 21484), (2, 21496), (3, 21562), (Start: 6 @21691 has 173 MA's), (7, 21721), (11, 21841), (12, 21868), (14, 21874),

Gene: Issimir_68 Start: 22593, Stop: 22799, Start Num: 6
Candidate Starts for Issimir_68:
(1, 22386), (3, 22464), (Start: 6 @22593 has 173 MA's), (7, 22623), (11, 22743), (12, 22770), (14, 22776),

Gene: Izajani_69 Start: 22666, Stop: 22872, Start Num: 6
Candidate Starts for Izajani_69:
(3, 22537), (Start: 6 @22666 has 173 MA's), (7, 22696), (11, 22816), (12, 22843), (14, 22849),

Gene: JPickles_67 Start: 20790, Stop: 20996, Start Num: 6
Candidate Starts for JPickles_67:
(3, 20661), (Start: 6 @20790 has 173 MA's), (7, 20820), (11, 20940), (12, 20967), (14, 20973),

Gene: Janiyra_70 Start: 22355, Stop: 22561, Start Num: 6
Candidate Starts for Janiyra_70:
(3, 22226), (Start: 6 @22355 has 173 MA's), (7, 22385), (11, 22505), (12, 22532), (14, 22538),

Gene: JayJay_75 Start: 23147, Stop: 23353, Start Num: 6
Candidate Starts for JayJay_75:
(1, 22940), (2, 22952), (3, 23018), (Start: 6 @23147 has 173 MA's), (7, 23177), (11, 23297), (12, 23324), (14, 23330),

Gene: Jaygup_68 Start: 21592, Stop: 21798, Start Num: 6
Candidate Starts for Jaygup_68:
(3, 21463), (Start: 6 @21592 has 173 MA's), (7, 21622), (11, 21742), (12, 21769), (14, 21775),

Gene: Jedediah_70 Start: 22093, Stop: 22299, Start Num: 6
Candidate Starts for Jedediah_70:
(3, 21964), (Start: 6 @22093 has 173 MA's), (7, 22123), (11, 22243), (12, 22270), (14, 22276),

Gene: Jemmno_68 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Jemmno_68:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Jessibeth14_67 Start: 22112, Stop: 22318, Start Num: 6
Candidate Starts for Jessibeth14_67:
(1, 21905), (2, 21917), (3, 21983), (Start: 6 @22112 has 173 MA's), (7, 22142), (11, 22262), (12, 22289), (14, 22295),

Gene: Jezreel_67 Start: 21909, Stop: 22115, Start Num: 6
Candidate Starts for Jezreel_67:

(3, 21780), (Start: 6 @21909 has 173 MA's), (7, 21939), (11, 22059), (12, 22086), (14, 22092),

Gene: JigglyPuff_73 Start: 24102, Stop: 24305, Start Num: 6
Candidate Starts for JigglyPuff_73:
(1, 23895), (2, 23907), (3, 23973), (Start: 6 @24102 has 173 MA's), (7, 24132), (11, 24252), (12, 24279), (15, 24297),

Gene: JulietS_62 Start: 20213, Stop: 20419, Start Num: 6
Candidate Starts for JulietS_62:
(Start: 6 @20213 has 173 MA's), (7, 20243), (11, 20363), (12, 20390), (14, 20396),

Gene: JustHall_64 Start: 21915, Stop: 22121, Start Num: 6
Candidate Starts for JustHall_64:
(3, 21786), (Start: 6 @21915 has 173 MA's), (7, 21945), (11, 22065), (12, 22092), (14, 22098),

Gene: Kamryn_68 Start: 22269, Stop: 22475, Start Num: 6
Candidate Starts for Kamryn_68:
(3, 22140), (Start: 6 @22269 has 173 MA's), (7, 22299), (11, 22419), (12, 22446), (14, 22452),

Gene: Khaleesi_68 Start: 22397, Stop: 22603, Start Num: 6
Candidate Starts for Khaleesi_68:
(3, 22268), (Start: 6 @22397 has 173 MA's), (7, 22427), (11, 22547), (12, 22574), (14, 22580),

Gene: Koguma_65 Start: 20431, Stop: 20637, Start Num: 6
Candidate Starts for Koguma_65:
(Start: 6 @20431 has 173 MA's), (7, 20461), (11, 20581), (12, 20608), (14, 20614),

Gene: LRRHood_64 Start: 22354, Stop: 22560, Start Num: 6
Candidate Starts for LRRHood_64:
(Start: 6 @22354 has 173 MA's), (7, 22384), (11, 22504), (12, 22531), (14, 22537),

Gene: Labradorite_70 Start: 21713, Stop: 21919, Start Num: 6
Candidate Starts for Labradorite_70:
(3, 21584), (Start: 6 @21713 has 173 MA's), (7, 21743), (11, 21863), (12, 21890), (14, 21896),

Gene: Latch_68 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Latch_68:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Lee7_70 Start: 22328, Stop: 22534, Start Num: 6
Candidate Starts for Lee7_70:
(1, 22121), (2, 22133), (3, 22199), (Start: 6 @22328 has 173 MA's), (7, 22358), (11, 22478), (12, 22505), (14, 22511),

Gene: Lethe_67 Start: 22591, Stop: 22797, Start Num: 6
Candidate Starts for Lethe_67:
(1, 22384), (2, 22396), (3, 22462), (Start: 6 @22591 has 173 MA's), (7, 22621), (11, 22741), (12, 22768), (14, 22774),

Gene: LifeSavor_67 Start: 21315, Stop: 21521, Start Num: 6
Candidate Starts for LifeSavor_67:
(3, 21186), (Start: 6 @21315 has 173 MA's), (7, 21345), (11, 21465), (12, 21492), (14, 21498),

Gene: LinStu_68 Start: 23060, Stop: 23266, Start Num: 6
Candidate Starts for LinStu_68:
(Start: 6 @23060 has 173 MA's), (7, 23090), (11, 23210), (12, 23237), (14, 23243),

Gene: Littleton_68 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Littleton_68:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Loanshark_69 Start: 22650, Stop: 22856, Start Num: 6
Candidate Starts for Loanshark_69:
(3, 22521), (Start: 6 @22650 has 173 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: LolaVinca_71 Start: 23811, Stop: 24017, Start Num: 6
Candidate Starts for LolaVinca_71:
(3, 23682), (Start: 6 @23811 has 173 MA's), (7, 23841), (11, 23961), (12, 23988), (14, 23994),

Gene: LookingGlass_70 Start: 23093, Stop: 23299, Start Num: 6
Candidate Starts for LookingGlass_70:
(1, 22886), (2, 22898), (3, 22964), (Start: 6 @23093 has 173 MA's), (7, 23123), (11, 23243), (12, 23270), (14, 23276),

Gene: LordLeafolot_75 Start: 24163, Stop: 24366, Start Num: 6
Candidate Starts for LordLeafolot_75:
(3, 24034), (Start: 6 @24163 has 173 MA's), (7, 24193), (11, 24313), (12, 24340), (15, 24358),

Gene: Lukilu_60 Start: 21556, Stop: 21762, Start Num: 6
Candidate Starts for Lukilu_60:
(Start: 6 @21556 has 173 MA's), (7, 21586), (11, 21706), (12, 21733), (14, 21739),

Gene: Lunareta_65 Start: 22546, Stop: 22752, Start Num: 6
Candidate Starts for Lunareta_65:
(1, 22339), (2, 22351), (3, 22417), (Start: 6 @22546 has 173 MA's), (7, 22576), (11, 22696), (12, 22723), (14, 22729),

Gene: Maby2021_69 Start: 22331, Stop: 22537, Start Num: 6
Candidate Starts for Maby2021_69:
(3, 22202), (Start: 6 @22331 has 173 MA's), (7, 22361), (11, 22481), (12, 22508), (14, 22514),

Gene: Maguvora_74 Start: 24161, Stop: 24367, Start Num: 6
Candidate Starts for Maguvora_74:
(3, 24032), (Start: 6 @24161 has 173 MA's), (7, 24191), (11, 24311), (12, 24338), (14, 24344),

Gene: Mangeria_72 Start: 23674, Stop: 23880, Start Num: 6
Candidate Starts for Mangeria_72:
(3, 23545), (Start: 6 @23674 has 173 MA's), (7, 23704), (11, 23824), (12, 23851), (14, 23857),

Gene: Matsumoto_67 Start: 21557, Stop: 21763, Start Num: 6
Candidate Starts for Matsumoto_67:
(3, 21428), (Start: 6 @21557 has 173 MA's), (7, 21587), (11, 21707), (12, 21734), (14, 21740),

Gene: Maturis_65 Start: 22183, Stop: 22389, Start Num: 6
Candidate Starts for Maturis_65:
(Start: 6 @22183 has 173 MA's), (7, 22213), (11, 22333), (12, 22360), (14, 22366),

Gene: McGee_68 Start: 20780, Stop: 20986, Start Num: 6
Candidate Starts for McGee_68:
(3, 20651), (Start: 6 @20780 has 173 MA's), (7, 20810), (11, 20930), (12, 20957), (14, 20963),

Gene: McWolfish_67 Start: 22078, Stop: 22284, Start Num: 6
Candidate Starts for McWolfish_67:
(3, 21949), (Start: 6 @22078 has 173 MA's), (7, 22108), (11, 22228), (12, 22255), (14, 22261),

Gene: Megamind_68 Start: 22316, Stop: 22522, Start Num: 6
Candidate Starts for Megamind_68:
(3, 22187), (Start: 6 @22316 has 173 MA's), (7, 22346), (11, 22466), (12, 22493), (14, 22499),

Gene: Melpomini_63 Start: 20665, Stop: 20871, Start Num: 6
Candidate Starts for Melpomini_63:
(Start: 6 @20665 has 173 MA's), (7, 20695), (11, 20815), (12, 20842), (14, 20848),

Gene: MikeLiesIn_69 Start: 22663, Stop: 22869, Start Num: 6
Candidate Starts for MikeLiesIn_69:
(3, 22534), (Start: 6 @22663 has 173 MA's), (7, 22693), (11, 22813), (12, 22840), (14, 22846),

Gene: Mikro_66 Start: 23137, Stop: 23343, Start Num: 6
Candidate Starts for Mikro_66:
(3, 23008), (Start: 6 @23137 has 173 MA's), (7, 23167), (11, 23287), (12, 23314), (14, 23320),

Gene: MoMoMixon_69 Start: 22748, Stop: 22954, Start Num: 6
Candidate Starts for MoMoMixon_69:
(3, 22619), (Start: 6 @22748 has 173 MA's), (7, 22778), (11, 22898), (12, 22925), (14, 22931),

Gene: Moby_60 Start: 19152, Stop: 19358, Start Num: 6
Candidate Starts for Moby_60:
(Start: 6 @19152 has 173 MA's), (7, 19182), (11, 19302), (12, 19329), (14, 19335),

Gene: Moiqah_60 Start: 19152, Stop: 19358, Start Num: 6
Candidate Starts for Moiqah_60:
(Start: 6 @19152 has 173 MA's), (7, 19182), (11, 19302), (12, 19329), (14, 19335),

Gene: Momo_67 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Momo_67:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Montpel_65 Start: 22546, Stop: 22752, Start Num: 6
Candidate Starts for Montpel_65:
(1, 22339), (2, 22351), (3, 22417), (Start: 6 @22546 has 173 MA's), (7, 22576), (11, 22696), (12, 22723), (14, 22729),

Gene: Morizzled23_70 Start: 22280, Stop: 22486, Start Num: 6
Candidate Starts for Morizzled23_70:
(Start: 6 @22280 has 173 MA's), (7, 22310), (11, 22430), (12, 22457), (14, 22463),

Gene: Myrna_53 Start: 21157, Stop: 21366, Start Num: 6
Candidate Starts for Myrna_53:
(Start: 6 @21157 has 173 MA's), (7, 21187), (10, 21307), (13, 21340), (16, 21358),

Gene: Naija_67 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Naija_67:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Napoleon13_65 Start: 20589, Stop: 20795, Start Num: 6
Candidate Starts for Napoleon13_65:
(Start: 6 @20589 has 173 MA's), (7, 20619), (11, 20739), (12, 20766), (14, 20772),

Gene: Naval22_76 Start: 23673, Stop: 23879, Start Num: 6
Candidate Starts for Naval22_76:
(3, 23544), (Start: 6 @23673 has 173 MA's), (7, 23703), (11, 23823), (12, 23850), (14, 23856),

Gene: NedWong_70 Start: 22650, Stop: 22856, Start Num: 6
Candidate Starts for NedWong_70:
(3, 22521), (Start: 6 @22650 has 173 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Ngannou_63 Start: 20578, Stop: 20784, Start Num: 6
Candidate Starts for Ngannou_63:
(3, 20449), (Start: 6 @20578 has 173 MA's), (7, 20608), (11, 20728), (12, 20755), (14, 20761),

Gene: Nidhogg_69 Start: 22504, Stop: 22710, Start Num: 6
Candidate Starts for Nidhogg_69:
(3, 22375), (Start: 6 @22504 has 173 MA's), (7, 22534), (11, 22654), (12, 22681), (14, 22687),

Gene: NoodleTree_69 Start: 22511, Stop: 22714, Start Num: 6
Candidate Starts for NoodleTree_69:
(1, 22304), (2, 22316), (3, 22382), (Start: 6 @22511 has 173 MA's), (7, 22541), (11, 22661), (12, 22688), (15, 22706),

Gene: Norm_69 Start: 22651, Stop: 22857, Start Num: 6
Candidate Starts for Norm_69:
(3, 22522), (Start: 6 @22651 has 173 MA's), (7, 22681), (11, 22801), (12, 22828), (14, 22834),

Gene: NuevoMundo_74 Start: 23710, Stop: 23916, Start Num: 6
Candidate Starts for NuevoMundo_74:
(1, 23503), (2, 23515), (3, 23581), (Start: 6 @23710 has 173 MA's), (7, 23740), (11, 23860), (12, 23887), (14, 23893),

Gene: OrediggerDelux_70 Start: 22332, Stop: 22538, Start Num: 6
Candidate Starts for OrediggerDelux_70:
(3, 22203), (Start: 6 @22332 has 173 MA's), (7, 22362), (11, 22482), (12, 22509), (14, 22515),

Gene: ParkTD_69 Start: 22650, Stop: 22856, Start Num: 6
Candidate Starts for ParkTD_69:
(3, 22521), (Start: 6 @22650 has 173 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Patter_68 Start: 21613, Stop: 21819, Start Num: 6
Candidate Starts for Patter_68:
(3, 21484), (Start: 6 @21613 has 173 MA's), (7, 21643), (11, 21763), (12, 21790), (14, 21796),

Gene: PharkleMinkus_75 Start: 24164, Stop: 24367, Start Num: 6
Candidate Starts for PharkleMinkus_75:

(3, 24035), (Start: 6 @24164 has 173 MA's), (7, 24194), (11, 24314), (12, 24341), (15, 24359),

Gene: Phlegm_70 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Phlegm_70:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Phox_66 Start: 23036, Stop: 23242, Start Num: 6
Candidate Starts for Phox_66:
(Start: 6 @23036 has 173 MA's), (7, 23066), (11, 23186), (12, 23213), (14, 23219),

Gene: Phusco_68 Start: 22406, Stop: 22612, Start Num: 6
Candidate Starts for Phusco_68:
(3, 22277), (Start: 6 @22406 has 173 MA's), (7, 22436), (11, 22556), (12, 22583), (14, 22589),

Gene: Pinkcreek_60 Start: 20614, Stop: 20820, Start Num: 6
Candidate Starts for Pinkcreek_60:
(Start: 6 @20614 has 173 MA's), (7, 20644), (11, 20764), (12, 20791), (14, 20797),

Gene: Pivoine_67 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for Pivoine_67:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Primadonna_64 Start: 21995, Stop: 22201, Start Num: 6
Candidate Starts for Primadonna_64:
(3, 21866), (Start: 6 @21995 has 173 MA's), (7, 22025), (11, 22145), (12, 22172), (14, 22178),

Gene: Puhon_73 Start: 24178, Stop: 24381, Start Num: 6
Candidate Starts for Puhon_73:
(3, 24049), (Start: 6 @24178 has 173 MA's), (7, 24208), (11, 24328), (12, 24355), (15, 24373),

Gene: Pupusa_73 Start: 24531, Stop: 24734, Start Num: 6
Candidate Starts for Pupusa_73:
(3, 24402), (Start: 6 @24531 has 173 MA's), (7, 24561), (11, 24681), (12, 24708), (15, 24726),

Gene: PurduePete_68 Start: 22374, Stop: 22580, Start Num: 6
Candidate Starts for PurduePete_68:
(3, 22245), (Start: 6 @22374 has 173 MA's), (7, 22404), (11, 22524), (12, 22551), (14, 22557),

Gene: QBert_63 Start: 22445, Stop: 22651, Start Num: 6
Candidate Starts for QBert_63:
(1, 22238), (2, 22250), (3, 22316), (Start: 6 @22445 has 173 MA's), (7, 22475), (11, 22595), (12, 22622), (14, 22628),

Gene: Quasimodo_68 Start: 22614, Stop: 22820, Start Num: 6
Candidate Starts for Quasimodo_68:
(3, 22485), (Start: 6 @22614 has 173 MA's), (7, 22644), (11, 22764), (12, 22791), (14, 22797),

Gene: Rabinovish_67 Start: 23332, Stop: 23538, Start Num: 6
Candidate Starts for Rabinovish_67:
(Start: 6 @23332 has 173 MA's), (7, 23362), (11, 23482), (12, 23509), (14, 23515),

Gene: Rahel_69 Start: 21965, Stop: 22171, Start Num: 6
Candidate Starts for Rahel_69:

(3, 21836), (Start: 6 @21965 has 173 MA's), (7, 21995), (11, 22115), (12, 22142), (14, 22148),

Gene: Rizal_66 Start: 21567, Stop: 21773, Start Num: 6
Candidate Starts for Rizal_66:
(3, 21438), (Start: 6 @21567 has 173 MA's), (7, 21597), (11, 21717), (12, 21744), (14, 21750),

Gene: RoMag_63 Start: 21569, Stop: 21775, Start Num: 6
Candidate Starts for RoMag_63:
(1, 21362), (2, 21374), (3, 21440), (Start: 6 @21569 has 173 MA's), (7, 21599), (11, 21719), (12, 21746), (14, 21752),

Gene: Rocha_66 Start: 21656, Stop: 21862, Start Num: 6
Candidate Starts for Rocha_66:
(1, 21449), (2, 21461), (3, 21527), (Start: 6 @21656 has 173 MA's), (7, 21686), (11, 21806), (12, 21833), (14, 21839),

Gene: Ronan_62 Start: 19853, Stop: 20059, Start Num: 6
Candidate Starts for Ronan_62:
(Start: 6 @19853 has 173 MA's), (7, 19883), (11, 20003), (12, 20030), (14, 20036),

Gene: Roots515_67 Start: 22051, Stop: 22257, Start Num: 6
Candidate Starts for Roots515_67:
(Start: 6 @22051 has 173 MA's), (7, 22081), (11, 22201), (12, 22228), (14, 22234),

Gene: SVoro_67 Start: 22644, Stop: 22850, Start Num: 6
Candidate Starts for SVoro_67:
(3, 22515), (Start: 6 @22644 has 173 MA's), (7, 22674), (11, 22794), (12, 22821), (14, 22827),

Gene: Salacia_71 Start: 22708, Stop: 22914, Start Num: 6
Candidate Starts for Salacia_71:
(3, 22579), (Start: 6 @22708 has 173 MA's), (7, 22738), (11, 22858), (12, 22885), (14, 22891),

Gene: Sauce_69 Start: 22254, Stop: 22460, Start Num: 6
Candidate Starts for Sauce_69:
(Start: 6 @22254 has 173 MA's), (7, 22284), (11, 22404), (12, 22431), (14, 22437),

Gene: ScoobyDoobyDoo_47 Start: 17127, Stop: 17333, Start Num: 6
Candidate Starts for ScoobyDoobyDoo_47:
(Start: 6 @17127 has 173 MA's), (8, 17166), (9, 17193), (13, 17310), (15, 17325),

Gene: ScottMcG_66 Start: 22428, Stop: 22634, Start Num: 6
Candidate Starts for ScottMcG_66:
(3, 22299), (Start: 6 @22428 has 173 MA's), (7, 22458), (11, 22578), (12, 22605), (14, 22611),

Gene: Sebata_69 Start: 23179, Stop: 23385, Start Num: 6
Candidate Starts for Sebata_69:
(Start: 6 @23179 has 173 MA's), (7, 23209), (11, 23329), (12, 23356), (14, 23362),

Gene: Shaqnato_62 Start: 20776, Stop: 20982, Start Num: 6
Candidate Starts for Shaqnato_62:
(Start: 6 @20776 has 173 MA's), (7, 20806), (11, 20926), (12, 20953), (14, 20959),

Gene: Shelob_71 Start: 23642, Stop: 23848, Start Num: 6

Candidate Starts for Shelob_71:
(3, 23513), (Start: 6 @23642 has 173 MA's), (7, 23672), (11, 23792), (12, 23819), (14, 23825),

Gene: ShiaLabeouf_68 Start: 22033, Stop: 22239, Start Num: 6
Candidate Starts for ShiaLabeouf_68:
(3, 21904), (Start: 6 @22033 has 173 MA's), (7, 22063), (11, 22183), (12, 22210), (14, 22216),

Gene: Shifa_60 Start: 21161, Stop: 21367, Start Num: 6
Candidate Starts for Shifa_60:
(Start: 6 @21161 has 173 MA's), (7, 21191), (11, 21311), (12, 21338), (14, 21344),

Gene: Shnickers_68 Start: 21592, Stop: 21798, Start Num: 6
Candidate Starts for Shnickers_68:
(3, 21463), (Start: 6 @21592 has 173 MA's), (7, 21622), (11, 21742), (12, 21769), (14, 21775),

Gene: SilverDipper_69 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for SilverDipper_69:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: SiwenD96_68 Start: 23028, Stop: 23234, Start Num: 6
Candidate Starts for SiwenD96_68:
(3, 22899), (Start: 6 @23028 has 173 MA's), (7, 23058), (11, 23178), (12, 23205), (14, 23211),

Gene: SmallFry_68 Start: 21592, Stop: 21798, Start Num: 6
Candidate Starts for SmallFry_68:
(3, 21463), (Start: 6 @21592 has 173 MA's), (7, 21622), (11, 21742), (12, 21769), (14, 21775),

Gene: SoilZilla_64 Start: 22094, Stop: 22300, Start Num: 6
Candidate Starts for SoilZilla_64:
(3, 21965), (Start: 6 @22094 has 173 MA's), (7, 22124), (11, 22244), (12, 22271), (14, 22277),

Gene: Spec_68 Start: 21736, Stop: 21942, Start Num: 6
Candidate Starts for Spec_68:
(3, 21607), (Start: 6 @21736 has 173 MA's), (7, 21766), (11, 21886), (12, 21913), (14, 21919),

Gene: Specks_74 Start: 24125, Stop: 24331, Start Num: 6
Candidate Starts for Specks_74:
(1, 23918), (2, 23930), (3, 23996), (Start: 6 @24125 has 173 MA's), (7, 24155), (11, 24275), (12, 24302), (14, 24308),

Gene: Sprinklers_65 Start: 21626, Stop: 21832, Start Num: 6
Candidate Starts for Sprinklers_65:
(1, 21419), (2, 21431), (3, 21497), (Start: 6 @21626 has 173 MA's), (7, 21656), (11, 21776), (12, 21803), (14, 21809),

Gene: SrishMeg2525_68 Start: 22361, Stop: 22567, Start Num: 6
Candidate Starts for SrishMeg2525_68:
(3, 22232), (Start: 6 @22361 has 173 MA's), (7, 22391), (11, 22511), (12, 22538), (14, 22544),

Gene: StephanieG_68 Start: 23026, Stop: 23232, Start Num: 6
Candidate Starts for StephanieG_68:
(1, 22819), (2, 22831), (3, 22897), (Start: 6 @23026 has 173 MA's), (7, 23056), (11, 23176), (12, 23203), (14, 23209),

Gene: Stubby_63 Start: 21945, Stop: 22151, Start Num: 6
Candidate Starts for Stubby_63:
(Start: 6 @21945 has 173 MA's), (7, 21975), (11, 22095), (12, 22122), (14, 22128),

Gene: StubbySaigey_69 Start: 21290, Stop: 21496, Start Num: 6
Candidate Starts for StubbySaigey_69:
(3, 21161), (Start: 6 @21290 has 173 MA's), (7, 21320), (11, 21440), (12, 21467), (14, 21473),

Gene: Substance289_64 Start: 21066, Stop: 21272, Start Num: 6
Candidate Starts for Substance289_64:
(3, 20937), (Start: 6 @21066 has 173 MA's), (7, 21096), (11, 21216), (12, 21243), (14, 21249),

Gene: Tainan_73 Start: 24163, Stop: 24366, Start Num: 6
Candidate Starts for Tainan_73:
(3, 24034), (Start: 6 @24163 has 173 MA's), (7, 24193), (11, 24313), (12, 24340), (15, 24358),

Gene: Teardrop_68 Start: 21449, Stop: 21655, Start Num: 6
Candidate Starts for Teardrop_68:
(1, 21242), (2, 21254), (3, 21320), (Start: 6 @21449 has 173 MA's), (7, 21479), (11, 21599), (12, 21626), (14, 21632),

Gene: TinyTim_69 Start: 22650, Stop: 22856, Start Num: 6
Candidate Starts for TinyTim_69:
(3, 22521), (Start: 6 @22650 has 173 MA's), (7, 22680), (11, 22800), (12, 22827), (14, 22833),

Gene: Tortoise16_66 Start: 22100, Stop: 22306, Start Num: 6
Candidate Starts for Tortoise16_66:
(3, 21971), (Start: 6 @22100 has 173 MA's), (7, 22130), (11, 22250), (12, 22277), (14, 22283),

Gene: Trinitium_64 Start: 21111, Stop: 21317, Start Num: 6
Candidate Starts for Trinitium_64:
(1, 20904), (2, 20916), (3, 20982), (Start: 6 @21111 has 173 MA's), (7, 21141), (11, 21261), (12, 21288), (14, 21294),

Gene: Turret_63 Start: 20777, Stop: 20983, Start Num: 6
Candidate Starts for Turret_63:
(3, 20648), (Start: 6 @20777 has 173 MA's), (7, 20807), (11, 20927), (12, 20954), (14, 20960),

Gene: Tyke_70 Start: 23004, Stop: 23210, Start Num: 6
Candidate Starts for Tyke_70:
(3, 22875), (Start: 6 @23004 has 173 MA's), (7, 23034), (11, 23154), (12, 23181), (14, 23187),

Gene: ValleyTerrace_68 Start: 21596, Stop: 21802, Start Num: 6
Candidate Starts for ValleyTerrace_68:
(3, 21467), (Start: 6 @21596 has 173 MA's), (7, 21626), (11, 21746), (12, 21773), (14, 21779),

Gene: Willis_69 Start: 22545, Stop: 22751, Start Num: 6
Candidate Starts for Willis_69:
(3, 22416), (Start: 6 @22545 has 173 MA's), (7, 22575), (11, 22695), (12, 22722), (14, 22728),

Gene: Yassified_65 Start: 21613, Stop: 21819, Start Num: 6
Candidate Starts for Yassified_65:

(Start: 6 @21613 has 173 MA's), (7, 21643), (11, 21763), (12, 21790), (14, 21796),

Gene: YemiJoy2021_69 Start: 22331, Stop: 22537, Start Num: 6
Candidate Starts for YemiJoy2021_69:
(3, 22202), (Start: 6 @22331 has 173 MA's), (7, 22361), (11, 22481), (12, 22508), (14, 22514),

Gene: YoungMoneyMata_68 Start: 21347, Stop: 21553, Start Num: 6
Candidate Starts for YoungMoneyMata_68:
(3, 21218), (Start: 6 @21347 has 173 MA's), (7, 21377), (11, 21497), (12, 21524), (14, 21530),

Gene: Yucca_68 Start: 22572, Stop: 22778, Start Num: 6
Candidate Starts for Yucca_68:
(3, 22443), (Start: 6 @22572 has 173 MA's), (7, 22602), (11, 22722), (12, 22749), (14, 22755),

Gene: Zalkecks_70 Start: 22335, Stop: 22541, Start Num: 6
Candidate Starts for Zalkecks_70:
(3, 22206), (Start: 6 @22335 has 173 MA's), (7, 22365), (11, 22485), (12, 22512), (14, 22518),

Gene: Zeenon_70 Start: 22637, Stop: 22843, Start Num: 6
Candidate Starts for Zeenon_70:
(3, 22508), (Start: 6 @22637 has 173 MA's), (7, 22667), (11, 22787), (12, 22814), (14, 22820),

Gene: ZygoTaiga_68 Start: 22651, Stop: 22857, Start Num: 6
Candidate Starts for ZygoTaiga_68:
(3, 22522), (Start: 6 @22651 has 173 MA's), (7, 22681), (11, 22801), (12, 22828), (14, 22834),