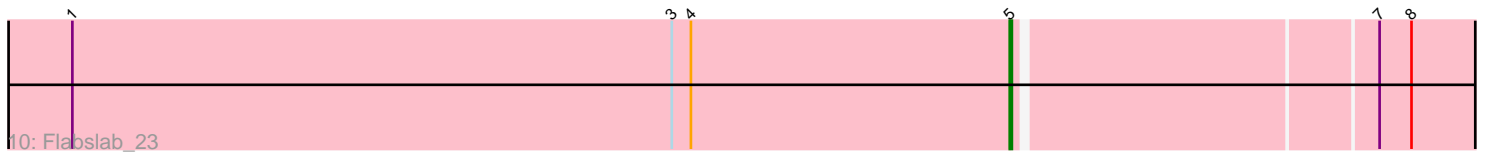
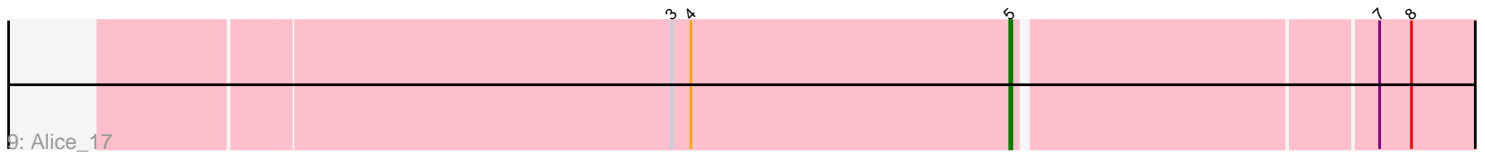
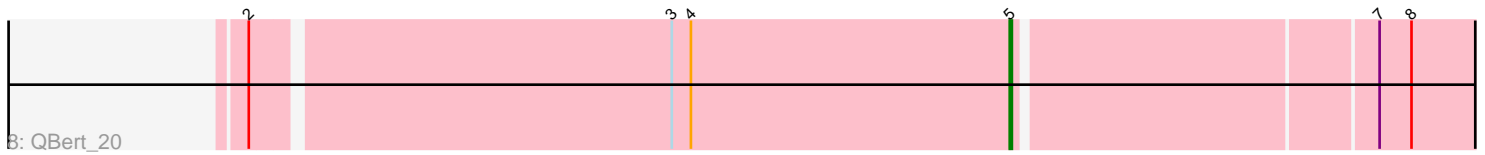
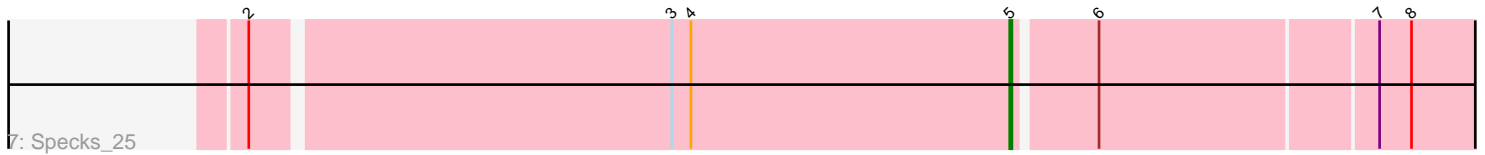
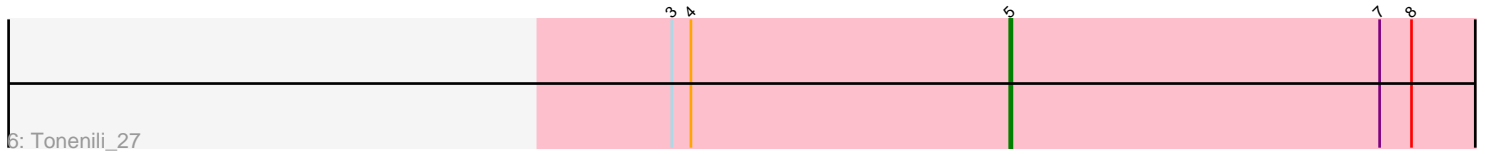
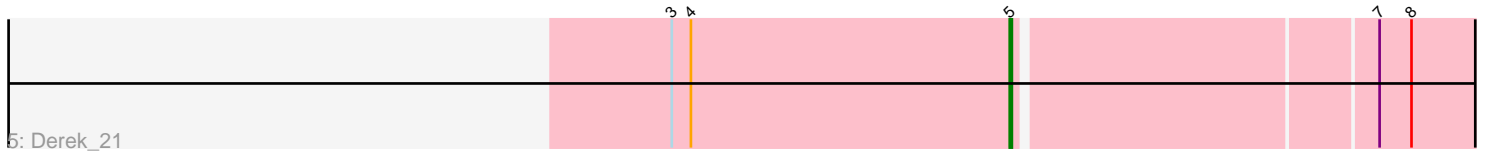
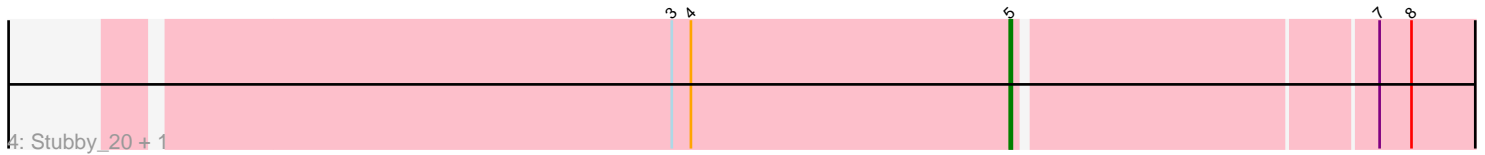
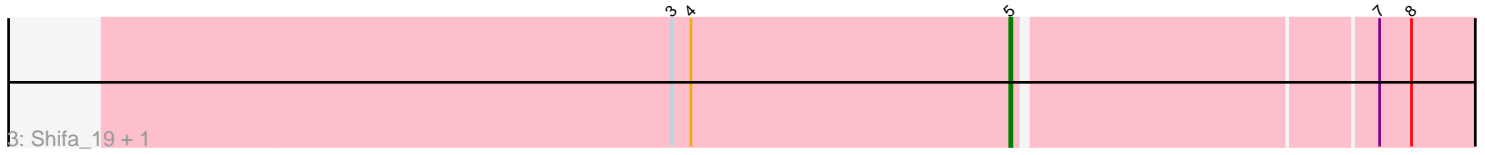
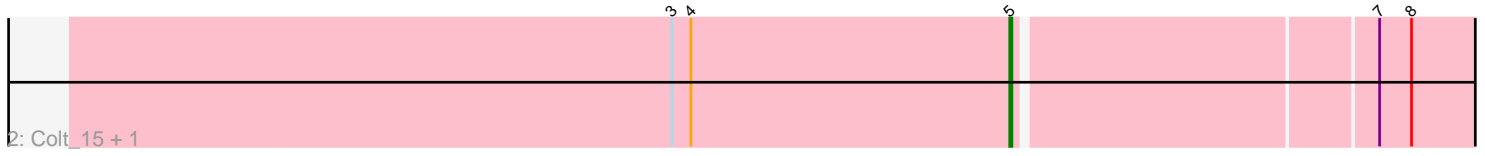
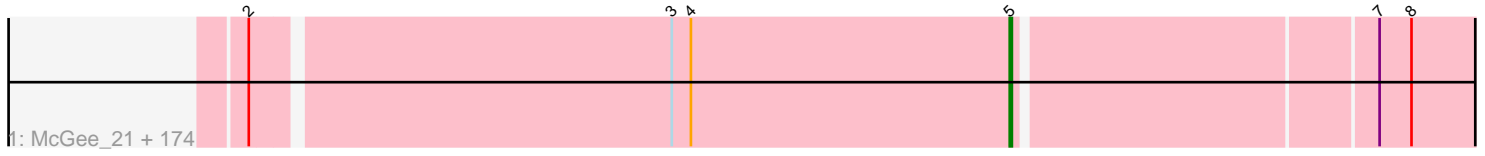


Pham 196312



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 196312 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196312 has 187 members, 18 are drafts.

Phages represented in each track:

- Track 1 : McGee_21, Kboogie_21, Asterius_21, LolaVinca_24, Teardrop_20, Pleione_23, Ghost_21, ZygoTaiga_22, Chomp_20, Ava3_22, Janiyra_20, Bigswole_26, Koguma_18, RoMag_16, Amataga_20, EmToTheThree_24, BackyardAgain_19, Izajani_22, Turret_20, Shnickers_20, Jessibeth14_21, Khaleesi_21, MoMoMixon_23, Astraea_22, Rizal_20, IkeLoa_17, Blackbrain_20, NedWong_22, Patter_20, I3_23, LifeSavor_21, FoxtrotP1_22, CharlieB_22, ArcherS7_20, Drazdys_22, Zalkecks_23, LordLeafolot_27, Pier_23, PurduePete_21, SrishMeg2525_21, Phox_21, Domi_16, JulietS_17, Rabinovish_21, TinyTim_21, Spec_19, Bangla1971_20, Babyland_20, Bread_22, SmallFry_20, BeanWater_17, ET08_18, Lee7_21, EggyFarm_25, Morizzled23_20, InigoMontoya_22, Concombre_21, ChickenPhender_20, Ading_20, Atlantean_20, Bonray_21, Spud_24, NuevoMundo_25, Norm_21, Yucca_21, Grasshills_25, Nappy_23, Sprinklers_22, InterFolia_27, FrayBell_27, ParkTD_21, Darko_20, Burrough_22, Ronan_17, Cali_23, Latch_20, Phlegm_22, Dietrick_18, Tyke_23, Gamgam_20, Trinitium_20, Bxz1_23, Basquiat_20, Yassified_19, Pivoine_20, Shelob_24, Daffodil_23, Breeniome_21, Adlitam_20, Salacia_23, Gabriel_21, Jedediah_21, YemiJoy2021_22, Zeenon_24, Tainan_27, Delilah_21, Blackdragon_18, JigglyPuff_22, Kamryn_20, Guwapp_20, Dandelion_25, StubbySaigey_21, FudgeTart_22, Sauce_23, CindyLou_20, ChaylaJr_20, ErnieJ_24, DrPhinkDaddy_21, Shaqnato_18, Sebata_23, Willis_22, Loanshark_21, Melpomini_20, Delylah_24, Bipolarisk_21, Halldule_18, Littleton_21, Jemmno_20, ShiaLabeouf_20, Naval22_23, BigCity_25, ValleyTerrace_20, BadAgartude_23, Quasimodo_20, YoungMoneyMata_21, Mikro_20, Iota_19, Tortoise16_19, Ngannou_20, Phusco_20, Maby2021_22, NoodleTree_20, Erdmann_22, BananaFence_23, Lukilu_16, EasyJones_21, Momo_20, EmmaElysia_20, Capablanca_22, DirtMonster_19, Chargie21_20, LinStu_23, Matsumoto_19, Roots515_21, Jaygup_20, SilverDipper_21, LRRHood_20, Audrick_22, StephanieG_22, McWolfish_21, Caravan_21, Demodog_20, Gizmo_23, Issimir_21, Nidhogg_23, JustHall_20, ScottMcG_23, Rahel_20, JayJay_23, Megamind_21, Catera_20, Fludd_20, JPickles_20, Essence_20, MikeLiesIn_22, Pio_24, Mangeria_24, Grungle_16, Wally_20, Shrimp_21, Cactojaque_19, Ewok_21, DTDevon_22, Napoleon13_20, Naija_20
- Track 2 : Colt_15, Cane17_15
- Track 3 : Shifa_19, HyRo_20
- Track 4 : Stubby_20, Pinkcreek_14
- Track 5 : Derek_21
- Track 6 : Tonenili_27
- Track 7 : Specks_25

- Track 8 : QBert_20
- Track 9 : Alice_17
- Track 10 : Flabslab_23

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

The start number called the most often in the published annotations is 5, it was called in 169 of the 169 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_20, Adlitam_20, Alice_17, Amataga_20, ArcherS7_20, Asterius_21, Astraea_22, Atlantean_20, Audrick_22, Ava3_22, Babyland_20, BackyardAgain_19, BadAgartude_23, BananaFence_23, Bangla1971_20, Basquiat_20, BeanWater_17, BigCity_25, Bigswole_26, Bipolarisk_21, Blackbrain_20, Blackdragon_18, Bonray_21, Bread_22, Breeniome_21, Burrough_22, Bxz1_23, Cactojaque_19, Cali_23, Cane17_15, Capablanca_22, Caravan_21, Catera_20, Chargie21_20, CharlieB_22, ChaylaJr_20, ChickenPhender_20, Chomp_20, CindyLou_20, Colt_15, Concombre_21, DTDevon_22, Daffodil_23, Dandelion_25, Darko_20, Delilah_21, Delylah_24, Demodog_20, Derek_21, Dietrick_18, DirtMonster_19, Domi_16, DrPhinkDaddy_21, Drazdys_22, ET08_18, EasyJones_21, EggyFarm_25, EmToTheThree_24, EmmaElysia_20, Erdmann_22, ErnieJ_24, Essence_20, Ewok_21, Flabslab_23, Fludd_20, FoxtrotP1_22, FrayBell_27, FudgeTart_22, Gabriel_21, Gamgam_20, Ghost_21, Gizmo_23, Grasshills_25, Grungle_16, Guwapp_20, Halldule_18, HyRo_20, I3_23, IkeLoa_17, InigoMontoya_22, InterFolia_27, Iota_19, Issimir_21, Izajani_22, JPickles_20, Janiyra_20, JayJay_23, Jaygup_20, Jedediah_21, Jemmno_20, Jessibeth14_21, JigglyPuff_22, JulietS_17, JustHall_20, Kamryn_20, Kboogie_21, Khaleesi_21, Koguma_18, LRRHood_20, Latch_20, Lee7_21, LifeSavor_21, LinStu_23, Littleton_21, Loanshark_21, LolaVinca_24, LordLeafolot_27, Lukilu_16, Maby2021_22, Mangeria_24, Matsumoto_19, McGee_21, McWolfish_21, Megamind_21, Melpomini_20, MikeLiesIn_22, Mikro_20, MoMoMixon_23, Momo_20, Morizzled23_20, Naija_20, Napoleon13_20, Nappy_23, Naval22_23, NedWong_22, Ngannou_20, Nidhogg_23, NoodleTree_20, Norm_21, NuevoMundo_25, ParkTD_21, Patter_20, Phlegm_22, Phox_21, Phusco_20, Pier_23, Pinkcreek_14, Pio_24, Pivoine_20, Pleione_23, PurduePete_21, QBert_20, Quasimodo_20, Rabinovish_21, Rahel_20, Rizal_20, RoMag_16, Ronan_17, Roots515_21, Salacia_23, Sauce_23, ScottMcG_23, Sebata_23, Shaqnato_18, Shelob_24, ShiaLabeouf_20, Shifa_19, Shnickers_20, Shrimp_21, SilverDipper_21, SmallFry_20, Spec_19, Specks_25, Sprinklers_22, Spud_24, SrishMeg2525_21, StephanieG_22, StubbySaigey_21, Stubby_20, Tainan_27, Teardrop_20, TinyTim_21, Tonenili_27, Tortoise16_19, Trinitium_20, Turret_20, Tyke_23, ValleyTerrace_20, Wally_20, Willis_22, Yassified_19, YemiJoy2021_22, YoungMoneyMata_21, Yucca_21, Zalkecks_23, Zeenon_24, ZygoTaiga_22,

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 5:

- Found in 187 of 187 (100.0%) of genes in pham
- Manual Annotations of this start: 169 of 169
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ading_20 (C1), Adlitam_20 (C1), Alice_17 (C1), Amataga_20 (C1), ArcherS7_20 (C1), Asterius_21 (C1), Astraea_22 (C1), Atlantean_20 (C1), Audrick_22 (C1), Ava3_22 (C1), Babyland_20 (C1), BackyardAgain_19 (C1), BadAgartude_23 (C1), BananaFence_23 (C1), Bangla1971_20 (C1), Basquiat_20 (C1), BeanWater_17 (C1), BigCity_25 (C1), Bigswole_26 (C1), Bipolarisk_21 (C1), Blackbrain_20 (C1), Blackdragon_18 (C1), Bonray_21 (C1), Bread_22 (C1), Breeniome_21 (C1), Burrough_22 (C1), Bxz1_23 (C1), Cactojaque_19 (C1), Cali_23 (C1), Cane17_15 (C1), Capablanca_22 (C1), Caravan_21 (C1), Catera_20 (C1), Chargie21_20 (C1), CharlieB_22 (C1), ChaylaJr_20 (C1), ChickenPhender_20 (C1), Chomp_20 (C1), CindyLou_20 (C1), Colt_15 (C1), Concombre_21 (C1), DTDevon_22 (C1), Daffodil_23 (C1), Dandelion_25 (C1), Darko_20 (C1), Delilah_21 (C1), Delylah_24 (C1), Demodog_20 (C1), Derek_21 (C1), Dietrick_18 (C1), DirtMonster_19 (C1), Domi_16 (C1), DrPhinkDaddy_21 (C1), Drazdys_22 (C1), ET08_18 (C1), EasyJones_21 (C1), EggyFarm_25 (C1), EmToTheThree_24 (C1), EmmaElysia_20 (C1), Erdmann_22 (C1), ErnieJ_24 (C1), Essence_20 (C1), Ewok_21 (C1), Flabslab_23 (C1), Fludd_20 (C1), FoxtrotP1_22 (C1), FrayBell_27 (C1), FudgeTart_22 (C1), Gabriel_21 (C1), Gamgam_20 (C1), Ghost_21 (C1), Gizmo_23 (C1), Grasshills_25 (C1), Grungle_16 (C1), Guwapp_20 (C1), Halldule_18 (C1), HyRo_20 (C1), I3_23 (C1), IkeLoa_17 (C1), InigoMontoya_22 (C1), InterFolia_27 (C1), Iota_19 (C1), Issimir_21 (C1), Izajani_22 (C1), JPickles_20 (C1), Janiyra_20 (C1), JayJay_23 (C1), Jaygup_20 (C1), Jedediah_21 (C1), Jemmno_20 (C1), Jessibeth14_21 (C1), JigglyPuff_22 (C1), JulietS_17 (C1), JustHall_20 (C1), Kamryn_20 (C1), Kboogie_21 (C1), Khaleesi_21 (C1), Koguma_18 (C1), LRRHood_20 (C1), Latch_20 (C1), Lee7_21 (C1), LifeSavor_21 (C1), LinStu_23 (C1), Littleton_21 (C1), Loanshark_21 (C1), LolaVinca_24 (C1), LordLeafolot_27 (C1), Lukilu_16 (C1), Maby2021_22 (C1), Mangeria_24 (C1), Matsumoto_19 (C1), McGee_21 (C1), McWolfish_21 (C1), Megamind_21 (C1), Melpomini_20 (C1), MikeLiesIn_22 (C1), Mikro_20 (C1), MoMoMixon_23 (C1), Momo_20 (C1), Morizzled23_20 (C1), Naija_20 (C1), Napoleon13_20 (C1), Nappy_23 (C1), Naval22_23 (C1), NedWong_22 (C1), Ngannou_20 (C1), Nidhogg_23 (C1), NoodleTree_20 (C1), Norm_21 (C1), NuevoMundo_25 (C1), ParkTD_21 (C1), Patter_20 (C1), Phlegm_22 (C1), Phox_21 (C1), Phusco_20 (C1), Pier_23 (C1), Pinkcreek_14 (C1), Pio_24 (C1), Pivoine_20 (C1), Pleione_23 (C1), PurduePete_21 (C1), QBert_20 (C1), Quasimodo_20 (C1), Rabinovish_21 (C1), Rahel_20 (C1), Rizal_20 (C1), RoMag_16 (C1), Ronan_17 (C1), Roots515_21 (C1), Salacia_23 (C1), Sauce_23 (C1), ScottMcG_23 (C1), Sebata_23 (C1), Shaqnato_18 (C1), Shelob_24 (C1), ShiaLabeouf_20 (C1), Shifa_19 (C1), Shnickers_20 (C1), Shrimp_21 (C1), SilverDipper_21 (C1), SmallFry_20 (C1), Spec_19 (C1), Specks_25 (C1), Sprinklers_22 (C1), Spud_24 (C1), SrishMeg2525_21 (C1), StephanieG_22 (C1), StubbySaigey_21 (C1), Stubby_20 (C1), Tainan_27 (C1), Teardrop_20 (C1), TinyTim_21 (C1), Tonerili_27 (C1), Tortoise16_19 (C1), Trinitium_20 (C1), Turret_20 (C1), Tyke_23 (C1), ValleyTerrace_20 (C1), Wally_20 (C1), Willis_22 (C1), Yassified_19 (C1), YemiJoy2021_22 (C1), YoungMoneyMata_21 (C1), Yucca_21 (C1), Zalkecks_23 (C1), Zeenon_24 (C1), ZygoTaiga_22 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

•Start number 5 was manually annotated 169 times for cluster C1.

Gene Information:

Gene: Ading_20 Start: 6287, Stop: 6514, Start Num: 5

Candidate Starts for Ading_20:

(2, 5939), (3, 6128), (4, 6137), (Start: 5 @6287 has 169 MA's), (7, 6449), (8, 6464),

Gene: Adlitam_20 Start: 6304, Stop: 6531, Start Num: 5

Candidate Starts for Adlitam_20:

(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Alice_17 Start: 6179, Stop: 6406, Start Num: 5

Candidate Starts for Alice_17:

(3, 6020), (4, 6029), (Start: 5 @6179 has 169 MA's), (7, 6341), (8, 6356),

Gene: Amataga_20 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for Amataga_20:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: ArcherS7_20 Start: 6304, Stop: 6531, Start Num: 5

Candidate Starts for ArcherS7_20:

(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Asterius_21 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Asterius_21:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Astraea_22 Start: 7025, Stop: 7252, Start Num: 5

Candidate Starts for Astraea_22:

(2, 6677), (3, 6866), (4, 6875), (Start: 5 @7025 has 169 MA's), (7, 7187), (8, 7202),

Gene: Atlantean_20 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for Atlantean_20:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Audrick_22 Start: 6287, Stop: 6514, Start Num: 5

Candidate Starts for Audrick_22:

(2, 5939), (3, 6128), (4, 6137), (Start: 5 @6287 has 169 MA's), (7, 6449), (8, 6464),

Gene: Ava3_22 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Ava3_22:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Babyland_20 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for Babyland_20:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: BackyardAgain_19 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for BackyardAgain_19:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: BadAgartude_23 Start: 7746, Stop: 7973, Start Num: 5
Candidate Starts for BadAgartude_23:
(2, 7398), (3, 7587), (4, 7596), (Start: 5 @7746 has 169 MA's), (7, 7908), (8, 7923),

Gene: BananaFence_23 Start: 7311, Stop: 7538, Start Num: 5
Candidate Starts for BananaFence_23:
(2, 6963), (3, 7152), (4, 7161), (Start: 5 @7311 has 169 MA's), (7, 7473), (8, 7488),

Gene: Bangla1971_20 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Bangla1971_20:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Basquiat_20 Start: 6289, Stop: 6516, Start Num: 5
Candidate Starts for Basquiat_20:
(2, 5941), (3, 6130), (4, 6139), (Start: 5 @6289 has 169 MA's), (7, 6451), (8, 6466),

Gene: BeanWater_17 Start: 6728, Stop: 6955, Start Num: 5
Candidate Starts for BeanWater_17:
(2, 6380), (3, 6569), (4, 6578), (Start: 5 @6728 has 169 MA's), (7, 6890), (8, 6905),

Gene: BigCity_25 Start: 8678, Stop: 8905, Start Num: 5
Candidate Starts for BigCity_25:
(2, 8330), (3, 8519), (4, 8528), (Start: 5 @8678 has 169 MA's), (7, 8840), (8, 8855),

Gene: Bigswole_26 Start: 8741, Stop: 8968, Start Num: 5
Candidate Starts for Bigswole_26:
(2, 8393), (3, 8582), (4, 8591), (Start: 5 @8741 has 169 MA's), (7, 8903), (8, 8918),

Gene: Bipolarisk_21 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Bipolarisk_21:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Blackbrain_20 Start: 6349, Stop: 6576, Start Num: 5
Candidate Starts for Blackbrain_20:
(2, 6001), (3, 6190), (4, 6199), (Start: 5 @6349 has 169 MA's), (7, 6511), (8, 6526),

Gene: Blackdragon_18 Start: 6155, Stop: 6382, Start Num: 5
Candidate Starts for Blackdragon_18:
(2, 5807), (3, 5996), (4, 6005), (Start: 5 @6155 has 169 MA's), (7, 6317), (8, 6332),

Gene: Bonray_21 Start: 7412, Stop: 7639, Start Num: 5
Candidate Starts for Bonray_21:
(2, 7064), (3, 7253), (4, 7262), (Start: 5 @7412 has 169 MA's), (7, 7574), (8, 7589),

Gene: Bread_22 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Bread_22:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Breeniome_21 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Breeniome_21:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Burrough_22 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Burrough_22:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Bxz1_23 Start: 7851, Stop: 8078, Start Num: 5
Candidate Starts for Bxz1_23:
(2, 7503), (3, 7692), (4, 7701), (Start: 5 @7851 has 169 MA's), (7, 8013), (8, 8028),

Gene: Cactojaque_19 Start: 6238, Stop: 6465, Start Num: 5
Candidate Starts for Cactojaque_19:
(2, 5890), (3, 6079), (4, 6088), (Start: 5 @6238 has 169 MA's), (7, 6400), (8, 6415),

Gene: Cali_23 Start: 8722, Stop: 8949, Start Num: 5
Candidate Starts for Cali_23:
(2, 8374), (3, 8563), (4, 8572), (Start: 5 @8722 has 169 MA's), (7, 8884), (8, 8899),

Gene: Cane17_15 Start: 5760, Stop: 5987, Start Num: 5
Candidate Starts for Cane17_15:
(3, 5601), (4, 5610), (Start: 5 @5760 has 169 MA's), (7, 5922), (8, 5937),

Gene: Capablanca_22 Start: 7433, Stop: 7660, Start Num: 5
Candidate Starts for Capablanca_22:
(2, 7085), (3, 7274), (4, 7283), (Start: 5 @7433 has 169 MA's), (7, 7595), (8, 7610),

Gene: Caravan_21 Start: 6692, Stop: 6919, Start Num: 5
Candidate Starts for Caravan_21:
(2, 6344), (3, 6533), (4, 6542), (Start: 5 @6692 has 169 MA's), (7, 6854), (8, 6869),

Gene: Catera_20 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Catera_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Chargie21_20 Start: 6289, Stop: 6516, Start Num: 5
Candidate Starts for Chargie21_20:
(2, 5941), (3, 6130), (4, 6139), (Start: 5 @6289 has 169 MA's), (7, 6451), (8, 6466),

Gene: CharlieB_22 Start: 6687, Stop: 6914, Start Num: 5
Candidate Starts for CharlieB_22:
(2, 6339), (3, 6528), (4, 6537), (Start: 5 @6687 has 169 MA's), (7, 6849), (8, 6864),

Gene: ChaylaJr_20 Start: 6376, Stop: 6603, Start Num: 5
Candidate Starts for ChaylaJr_20:
(2, 6028), (3, 6217), (4, 6226), (Start: 5 @6376 has 169 MA's), (7, 6538), (8, 6553),

Gene: ChickenPhender_20 Start: 6334, Stop: 6561, Start Num: 5
Candidate Starts for ChickenPhender_20:
(2, 5986), (3, 6175), (4, 6184), (Start: 5 @6334 has 169 MA's), (7, 6496), (8, 6511),

Gene: Chomp_20 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for Chomp_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: CindyLou_20 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for CindyLou_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Colt_15 Start: 5766, Stop: 5993, Start Num: 5
Candidate Starts for Colt_15:
(3, 5607), (4, 5616), (Start: 5 @5766 has 169 MA's), (7, 5928), (8, 5943),

Gene: Concombres_21 Start: 7374, Stop: 7601, Start Num: 5
Candidate Starts for Concombres_21:
(2, 7026), (3, 7215), (4, 7224), (Start: 5 @7374 has 169 MA's), (7, 7536), (8, 7551),

Gene: DTDevon_22 Start: 7472, Stop: 7699, Start Num: 5
Candidate Starts for DTDevon_22:
(2, 7124), (3, 7313), (4, 7322), (Start: 5 @7472 has 169 MA's), (7, 7634), (8, 7649),

Gene: Daffodil_23 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Daffodil_23:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Dandelion_25 Start: 8201, Stop: 8428, Start Num: 5
Candidate Starts for Dandelion_25:
(2, 7853), (3, 8042), (4, 8051), (Start: 5 @8201 has 169 MA's), (7, 8363), (8, 8378),

Gene: Darko_20 Start: 7280, Stop: 7507, Start Num: 5
Candidate Starts for Darko_20:
(2, 6932), (3, 7121), (4, 7130), (Start: 5 @7280 has 169 MA's), (7, 7442), (8, 7457),

Gene: Delilah_21 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Delilah_21:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Delylah_24 Start: 7445, Stop: 7672, Start Num: 5
Candidate Starts for Delylah_24:
(2, 7097), (3, 7286), (4, 7295), (Start: 5 @7445 has 169 MA's), (7, 7607), (8, 7622),

Gene: Demodog_20 Start: 7374, Stop: 7601, Start Num: 5
Candidate Starts for Demodog_20:
(2, 7026), (3, 7215), (4, 7224), (Start: 5 @7374 has 169 MA's), (7, 7536), (8, 7551),

Gene: Derek_21 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Derek_21:
(3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Dietrick_18 Start: 6306, Stop: 6533, Start Num: 5
Candidate Starts for Dietrick_18:
(2, 5958), (3, 6147), (4, 6156), (Start: 5 @6306 has 169 MA's), (7, 6468), (8, 6483),

Gene: DirtMonster_19 Start: 7433, Stop: 7660, Start Num: 5
Candidate Starts for DirtMonster_19:

(2, 7085), (3, 7274), (4, 7283), (Start: 5 @7433 has 169 MA's), (7, 7595), (8, 7610),

Gene: Domi_16 Start: 6423, Stop: 6650, Start Num: 5

Candidate Starts for Domi_16:

(2, 6075), (3, 6264), (4, 6273), (Start: 5 @6423 has 169 MA's), (7, 6585), (8, 6600),

Gene: DrPhinkDaddy_21 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for DrPhinkDaddy_21:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Drazdys_22 Start: 7173, Stop: 7400, Start Num: 5

Candidate Starts for Drazdys_22:

(2, 6825), (3, 7014), (4, 7023), (Start: 5 @7173 has 169 MA's), (7, 7335), (8, 7350),

Gene: ET08_18 Start: 7115, Stop: 7342, Start Num: 5

Candidate Starts for ET08_18:

(2, 6767), (3, 6956), (4, 6965), (Start: 5 @7115 has 169 MA's), (7, 7277), (8, 7292),

Gene: EasyJones_21 Start: 6289, Stop: 6516, Start Num: 5

Candidate Starts for EasyJones_21:

(2, 5941), (3, 6130), (4, 6139), (Start: 5 @6289 has 169 MA's), (7, 6451), (8, 6466),

Gene: EggyFarm_25 Start: 8678, Stop: 8905, Start Num: 5

Candidate Starts for EggyFarm_25:

(2, 8330), (3, 8519), (4, 8528), (Start: 5 @8678 has 169 MA's), (7, 8840), (8, 8855),

Gene: EmToTheThree_24 Start: 8832, Stop: 9059, Start Num: 5

Candidate Starts for EmToTheThree_24:

(2, 8484), (3, 8673), (4, 8682), (Start: 5 @8832 has 169 MA's), (7, 8994), (8, 9009),

Gene: EmmaElysia_20 Start: 6304, Stop: 6531, Start Num: 5

Candidate Starts for EmmaElysia_20:

(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Erdmann_22 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Erdmann_22:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: ErnieJ_24 Start: 7479, Stop: 7706, Start Num: 5

Candidate Starts for ErnieJ_24:

(2, 7131), (3, 7320), (4, 7329), (Start: 5 @7479 has 169 MA's), (7, 7641), (8, 7656),

Gene: Essence_20 Start: 6304, Stop: 6531, Start Num: 5

Candidate Starts for Essence_20:

(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Ewok_21 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Ewok_21:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Flabslab_23 Start: 7578, Stop: 7805, Start Num: 5

Candidate Starts for Flabslab_23:

(1, 7137), (3, 7419), (4, 7428), (Start: 5 @7578 has 169 MA's), (7, 7740), (8, 7755),

Gene: Fludd_20 Start: 6290, Stop: 6517, Start Num: 5
Candidate Starts for Fludd_20:
(2, 5942), (3, 6131), (4, 6140), (Start: 5 @6290 has 169 MA's), (7, 6452), (8, 6467),

Gene: FoxtrotP1_22 Start: 7977, Stop: 8204, Start Num: 5
Candidate Starts for FoxtrotP1_22:
(2, 7629), (3, 7818), (4, 7827), (Start: 5 @7977 has 169 MA's), (7, 8139), (8, 8154),

Gene: FrayBell_27 Start: 8998, Stop: 9225, Start Num: 5
Candidate Starts for FrayBell_27:
(2, 8650), (3, 8839), (4, 8848), (Start: 5 @8998 has 169 MA's), (7, 9160), (8, 9175),

Gene: FudgeTart_22 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for FudgeTart_22:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Gabriel_21 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Gabriel_21:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Gamgam_20 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Gamgam_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Ghost_21 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Ghost_21:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Gizmo_23 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Gizmo_23:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Grasshills_25 Start: 8678, Stop: 8905, Start Num: 5
Candidate Starts for Grasshills_25:
(2, 8330), (3, 8519), (4, 8528), (Start: 5 @8678 has 169 MA's), (7, 8840), (8, 8855),

Gene: Grungle_16 Start: 5257, Stop: 5484, Start Num: 5
Candidate Starts for Grungle_16:
(2, 4909), (3, 5098), (4, 5107), (Start: 5 @5257 has 169 MA's), (7, 5419), (8, 5434),

Gene: Guwapp_20 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Guwapp_20:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Halldule_18 Start: 5900, Stop: 6127, Start Num: 5
Candidate Starts for Halldule_18:
(2, 5552), (3, 5741), (4, 5750), (Start: 5 @5900 has 169 MA's), (7, 6062), (8, 6077),

Gene: HyRo_20 Start: 7314, Stop: 7541, Start Num: 5
Candidate Starts for HyRo_20:
(3, 7155), (4, 7164), (Start: 5 @7314 has 169 MA's), (7, 7476), (8, 7491),

Gene: I3_23 Start: 7967, Stop: 8194, Start Num: 5

Candidate Starts for I3_23:

(2, 7619), (3, 7808), (4, 7817), (Start: 5 @7967 has 169 MA's), (7, 8129), (8, 8144),

Gene: IkeLoa_17 Start: 6434, Stop: 6661, Start Num: 5

Candidate Starts for IkeLoa_17:

(2, 6086), (3, 6275), (4, 6284), (Start: 5 @6434 has 169 MA's), (7, 6596), (8, 6611),

Gene: InigoMontoya_22 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for InigoMontoya_22:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: InterFolia_27 Start: 8995, Stop: 9222, Start Num: 5

Candidate Starts for InterFolia_27:

(2, 8647), (3, 8836), (4, 8845), (Start: 5 @8995 has 169 MA's), (7, 9157), (8, 9172),

Gene: Iota_19 Start: 7197, Stop: 7424, Start Num: 5

Candidate Starts for Iota_19:

(2, 6849), (3, 7038), (4, 7047), (Start: 5 @7197 has 169 MA's), (7, 7359), (8, 7374),

Gene: Issimir_21 Start: 7412, Stop: 7639, Start Num: 5

Candidate Starts for Issimir_21:

(2, 7064), (3, 7253), (4, 7262), (Start: 5 @7412 has 169 MA's), (7, 7574), (8, 7589),

Gene: Izajani_22 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Izajani_22:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: JPickles_20 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for JPickles_20:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Janiyra_20 Start: 6287, Stop: 6514, Start Num: 5

Candidate Starts for Janiyra_20:

(2, 5939), (3, 6128), (4, 6137), (Start: 5 @6287 has 169 MA's), (7, 6449), (8, 6464),

Gene: JayJay_23 Start: 7395, Stop: 7622, Start Num: 5

Candidate Starts for JayJay_23:

(2, 7047), (3, 7236), (4, 7245), (Start: 5 @7395 has 169 MA's), (7, 7557), (8, 7572),

Gene: Jaygup_20 Start: 6304, Stop: 6531, Start Num: 5

Candidate Starts for Jaygup_20:

(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Jedediah_21 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for Jedediah_21:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Jemmno_20 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for Jemmno_20:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Jessibeth14_21 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Jessibeth14_21:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: JigglyPuff_22 Start: 7423, Stop: 7650, Start Num: 5
Candidate Starts for JigglyPuff_22:
(2, 7075), (3, 7264), (4, 7273), (Start: 5 @7423 has 169 MA's), (7, 7585), (8, 7600),

Gene: JulietS_17 Start: 5533, Stop: 5760, Start Num: 5
Candidate Starts for JulietS_17:
(2, 5185), (3, 5374), (4, 5383), (Start: 5 @5533 has 169 MA's), (7, 5695), (8, 5710),

Gene: JustHall_20 Start: 7303, Stop: 7530, Start Num: 5
Candidate Starts for JustHall_20:
(2, 6955), (3, 7144), (4, 7153), (Start: 5 @7303 has 169 MA's), (7, 7465), (8, 7480),

Gene: Kamryn_20 Start: 6638, Stop: 6865, Start Num: 5
Candidate Starts for Kamryn_20:
(2, 6290), (3, 6479), (4, 6488), (Start: 5 @6638 has 169 MA's), (7, 6800), (8, 6815),

Gene: Kboogie_21 Start: 6306, Stop: 6533, Start Num: 5
Candidate Starts for Kboogie_21:
(2, 5958), (3, 6147), (4, 6156), (Start: 5 @6306 has 169 MA's), (7, 6468), (8, 6483),

Gene: Khaleesi_21 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Khaleesi_21:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Koguma_18 Start: 5900, Stop: 6127, Start Num: 5
Candidate Starts for Koguma_18:
(2, 5552), (3, 5741), (4, 5750), (Start: 5 @5900 has 169 MA's), (7, 6062), (8, 6077),

Gene: LRRHood_20 Start: 7826, Stop: 8053, Start Num: 5
Candidate Starts for LRRHood_20:
(2, 7478), (3, 7667), (4, 7676), (Start: 5 @7826 has 169 MA's), (7, 7988), (8, 8003),

Gene: Latch_20 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Latch_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Lee7_21 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Lee7_21:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: LifeSavor_21 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for LifeSavor_21:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: LinStu_23 Start: 8009, Stop: 8236, Start Num: 5
Candidate Starts for LinStu_23:
(2, 7661), (3, 7850), (4, 7859), (Start: 5 @8009 has 169 MA's), (7, 8171), (8, 8186),

Gene: Littleton_21 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Littleton_21:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Loanshark_21 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Loanshark_21:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: LolaVinca_24 Start: 8101, Stop: 8328, Start Num: 5

Candidate Starts for LolaVinca_24:

(2, 7753), (3, 7942), (4, 7951), (Start: 5 @8101 has 169 MA's), (7, 8263), (8, 8278),

Gene: LordLeafolot_27 Start: 8997, Stop: 9224, Start Num: 5

Candidate Starts for LordLeafolot_27:

(2, 8649), (3, 8838), (4, 8847), (Start: 5 @8997 has 169 MA's), (7, 9159), (8, 9174),

Gene: Lukilu_16 Start: 6250, Stop: 6477, Start Num: 5

Candidate Starts for Lukilu_16:

(2, 5902), (3, 6091), (4, 6100), (Start: 5 @6250 has 169 MA's), (7, 6412), (8, 6427),

Gene: Maby2021_22 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Maby2021_22:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Mangeria_24 Start: 7917, Stop: 8144, Start Num: 5

Candidate Starts for Mangeria_24:

(2, 7569), (3, 7758), (4, 7767), (Start: 5 @7917 has 169 MA's), (7, 8079), (8, 8094),

Gene: Matsumoto_19 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for Matsumoto_19:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: McGee_21 Start: 6306, Stop: 6533, Start Num: 5

Candidate Starts for McGee_21:

(2, 5958), (3, 6147), (4, 6156), (Start: 5 @6306 has 169 MA's), (7, 6468), (8, 6483),

Gene: McWolfish_21 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for McWolfish_21:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Megamind_21 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Megamind_21:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Melpomini_20 Start: 6287, Stop: 6514, Start Num: 5

Candidate Starts for Melpomini_20:

(2, 5939), (3, 6128), (4, 6137), (Start: 5 @6287 has 169 MA's), (7, 6449), (8, 6464),

Gene: MikeLiesIn_22 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for MikeLiesIn_22:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Mikro_20 Start: 7634, Stop: 7861, Start Num: 5

Candidate Starts for Mikro_20:

(2, 7286), (3, 7475), (4, 7484), (Start: 5 @7634 has 169 MA's), (7, 7796), (8, 7811),

Gene: MoMoMixon_23 Start: 7741, Stop: 7968, Start Num: 5
Candidate Starts for MoMoMixon_23:
(2, 7393), (3, 7582), (4, 7591), (Start: 5 @7741 has 169 MA's), (7, 7903), (8, 7918),

Gene: Momo_20 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Momo_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Morizzled23_20 Start: 6287, Stop: 6514, Start Num: 5
Candidate Starts for Morizzled23_20:
(2, 5939), (3, 6128), (4, 6137), (Start: 5 @6287 has 169 MA's), (7, 6449), (8, 6464),

Gene: Naija_20 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Naija_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Napoleon13_20 Start: 6306, Stop: 6533, Start Num: 5
Candidate Starts for Napoleon13_20:
(2, 5958), (3, 6147), (4, 6156), (Start: 5 @6306 has 169 MA's), (7, 6468), (8, 6483),

Gene: Nappy_23 Start: 7591, Stop: 7818, Start Num: 5
Candidate Starts for Nappy_23:
(2, 7243), (3, 7432), (4, 7441), (Start: 5 @7591 has 169 MA's), (7, 7753), (8, 7768),

Gene: Naval22_23 Start: 7741, Stop: 7968, Start Num: 5
Candidate Starts for Naval22_23:
(2, 7393), (3, 7582), (4, 7591), (Start: 5 @7741 has 169 MA's), (7, 7903), (8, 7918),

Gene: NedWong_22 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for NedWong_22:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Ngannou_20 Start: 6287, Stop: 6514, Start Num: 5
Candidate Starts for Ngannou_20:
(2, 5939), (3, 6128), (4, 6137), (Start: 5 @6287 has 169 MA's), (7, 6449), (8, 6464),

Gene: Nidhogg_23 Start: 7741, Stop: 7968, Start Num: 5
Candidate Starts for Nidhogg_23:
(2, 7393), (3, 7582), (4, 7591), (Start: 5 @7741 has 169 MA's), (7, 7903), (8, 7918),

Gene: NoodleTree_20 Start: 6635, Stop: 6862, Start Num: 5
Candidate Starts for NoodleTree_20:
(2, 6287), (3, 6476), (4, 6485), (Start: 5 @6635 has 169 MA's), (7, 6797), (8, 6812),

Gene: Norm_21 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Norm_21:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: NuevoMundo_25 Start: 8743, Stop: 8970, Start Num: 5
Candidate Starts for NuevoMundo_25:
(2, 8395), (3, 8584), (4, 8593), (Start: 5 @8743 has 169 MA's), (7, 8905), (8, 8920),

Gene: ParkTD_21 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for ParkTD_21:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Patter_20 Start: 6325, Stop: 6552, Start Num: 5
Candidate Starts for Patter_20:
(2, 5977), (3, 6166), (4, 6175), (Start: 5 @6325 has 169 MA's), (7, 6487), (8, 6502),

Gene: Phlegm_22 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Phlegm_22:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Phox_21 Start: 7823, Stop: 8050, Start Num: 5
Candidate Starts for Phox_21:
(2, 7475), (3, 7664), (4, 7673), (Start: 5 @7823 has 169 MA's), (7, 7985), (8, 8000),

Gene: Phusco_20 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Phusco_20:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Pier_23 Start: 7306, Stop: 7533, Start Num: 5
Candidate Starts for Pier_23:
(2, 6958), (3, 7147), (4, 7156), (Start: 5 @7306 has 169 MA's), (7, 7468), (8, 7483),

Gene: Pinkcreek_14 Start: 5502, Stop: 5729, Start Num: 5
Candidate Starts for Pinkcreek_14:
(3, 5343), (4, 5352), (Start: 5 @5502 has 169 MA's), (7, 5664), (8, 5679),

Gene: Pio_24 Start: 8240, Stop: 8467, Start Num: 5
Candidate Starts for Pio_24:
(2, 7892), (3, 8081), (4, 8090), (Start: 5 @8240 has 169 MA's), (7, 8402), (8, 8417),

Gene: Pivoine_20 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Pivoine_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Pleione_23 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Pleione_23:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: PurduePete_21 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for PurduePete_21:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: QBert_20 Start: 7823, Stop: 8050, Start Num: 5
Candidate Starts for QBert_20:
(2, 7475), (3, 7664), (4, 7673), (Start: 5 @7823 has 169 MA's), (7, 7985), (8, 8000),

Gene: Quasimodo_20 Start: 7307, Stop: 7534, Start Num: 5
Candidate Starts for Quasimodo_20:
(2, 6959), (3, 7148), (4, 7157), (Start: 5 @7307 has 169 MA's), (7, 7469), (8, 7484),

Gene: Rabinovish_21 Start: 8111, Stop: 8338, Start Num: 5

Candidate Starts for Rabinovish_21:
(2, 7763), (3, 7952), (4, 7961), (Start: 5 @8111 has 169 MA's), (7, 8273), (8, 8288),

Gene: Rahel_20 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Rahel_20:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Rizal_20 Start: 6303, Stop: 6530, Start Num: 5
Candidate Starts for Rizal_20:
(2, 5955), (3, 6144), (4, 6153), (Start: 5 @6303 has 169 MA's), (7, 6465), (8, 6480),

Gene: RoMag_16 Start: 6385, Stop: 6612, Start Num: 5
Candidate Starts for RoMag_16:
(2, 6037), (3, 6226), (4, 6235), (Start: 5 @6385 has 169 MA's), (7, 6547), (8, 6562),

Gene: Ronan_17 Start: 5234, Stop: 5461, Start Num: 5
Candidate Starts for Ronan_17:
(2, 4886), (3, 5075), (4, 5084), (Start: 5 @5234 has 169 MA's), (7, 5396), (8, 5411),

Gene: Roots515_21 Start: 7417, Stop: 7644, Start Num: 5
Candidate Starts for Roots515_21:
(2, 7069), (3, 7258), (4, 7267), (Start: 5 @7417 has 169 MA's), (7, 7579), (8, 7594),

Gene: Salacia_23 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for Salacia_23:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Sauce_23 Start: 7786, Stop: 8013, Start Num: 5
Candidate Starts for Sauce_23:
(2, 7438), (3, 7627), (4, 7636), (Start: 5 @7786 has 169 MA's), (7, 7948), (8, 7963),

Gene: ScottMcG_23 Start: 7974, Stop: 8201, Start Num: 5
Candidate Starts for ScottMcG_23:
(2, 7626), (3, 7815), (4, 7824), (Start: 5 @7974 has 169 MA's), (7, 8136), (8, 8151),

Gene: Sebata_23 Start: 8009, Stop: 8236, Start Num: 5
Candidate Starts for Sebata_23:
(2, 7661), (3, 7850), (4, 7859), (Start: 5 @8009 has 169 MA's), (7, 8171), (8, 8186),

Gene: Shaqnato_18 Start: 6239, Stop: 6466, Start Num: 5
Candidate Starts for Shaqnato_18:
(2, 5891), (3, 6080), (4, 6089), (Start: 5 @6239 has 169 MA's), (7, 6401), (8, 6416),

Gene: Shelob_24 Start: 8547, Stop: 8774, Start Num: 5
Candidate Starts for Shelob_24:
(2, 8199), (3, 8388), (4, 8397), (Start: 5 @8547 has 169 MA's), (7, 8709), (8, 8724),

Gene: ShiaLabeouf_20 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for ShiaLabeouf_20:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Shifa_19 Start: 6745, Stop: 6972, Start Num: 5
Candidate Starts for Shifa_19:

(3, 6586), (4, 6595), (Start: 5 @6745 has 169 MA's), (7, 6907), (8, 6922),

Gene: Shnickers_20 Start: 6304, Stop: 6531, Start Num: 5

Candidate Starts for Shnickers_20:

(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Shrimp_21 Start: 7422, Stop: 7649, Start Num: 5

Candidate Starts for Shrimp_21:

(2, 7074), (3, 7263), (4, 7272), (Start: 5 @7422 has 169 MA's), (7, 7584), (8, 7599),

Gene: SilverDipper_21 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for SilverDipper_21:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: SmallFry_20 Start: 6304, Stop: 6531, Start Num: 5

Candidate Starts for SmallFry_20:

(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Spec_19 Start: 6304, Stop: 6531, Start Num: 5

Candidate Starts for Spec_19:

(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Specks_25 Start: 8178, Stop: 8405, Start Num: 5

Candidate Starts for Specks_25:

(2, 7830), (3, 8019), (4, 8028), (Start: 5 @8178 has 169 MA's), (6, 8214), (7, 8340), (8, 8355),

Gene: Sprinklers_22 Start: 7148, Stop: 7375, Start Num: 5

Candidate Starts for Sprinklers_22:

(2, 6800), (3, 6989), (4, 6998), (Start: 5 @7148 has 169 MA's), (7, 7310), (8, 7325),

Gene: Spud_24 Start: 8240, Stop: 8467, Start Num: 5

Candidate Starts for Spud_24:

(2, 7892), (3, 8081), (4, 8090), (Start: 5 @8240 has 169 MA's), (7, 8402), (8, 8417),

Gene: SrishMeg2525_21 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for SrishMeg2525_21:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: StephanieG_22 Start: 7331, Stop: 7558, Start Num: 5

Candidate Starts for StephanieG_22:

(2, 6983), (3, 7172), (4, 7181), (Start: 5 @7331 has 169 MA's), (7, 7493), (8, 7508),

Gene: Stubby_20 Start: 6925, Stop: 7152, Start Num: 5

Candidate Starts for Stubby_20:

(3, 6766), (4, 6775), (Start: 5 @6925 has 169 MA's), (7, 7087), (8, 7102),

Gene: StubbySaigey_21 Start: 6308, Stop: 6535, Start Num: 5

Candidate Starts for StubbySaigey_21:

(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Tainan_27 Start: 8997, Stop: 9224, Start Num: 5

Candidate Starts for Tainan_27:

(2, 8649), (3, 8838), (4, 8847), (Start: 5 @8997 has 169 MA's), (7, 9159), (8, 9174),

Gene: Teardrop_20 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Teardrop_20:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: TinyTim_21 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for TinyTim_21:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Tonenili_27 Start: 8637, Stop: 8876, Start Num: 5
Candidate Starts for Tonenili_27:
(3, 8478), (4, 8487), (Start: 5 @8637 has 169 MA's), (7, 8811), (8, 8826),

Gene: Tortoise16_19 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Tortoise16_19:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Trinitium_20 Start: 6304, Stop: 6531, Start Num: 5
Candidate Starts for Trinitium_20:
(2, 5956), (3, 6145), (4, 6154), (Start: 5 @6304 has 169 MA's), (7, 6466), (8, 6481),

Gene: Turret_20 Start: 6287, Stop: 6514, Start Num: 5
Candidate Starts for Turret_20:
(2, 5939), (3, 6128), (4, 6137), (Start: 5 @6287 has 169 MA's), (7, 6449), (8, 6464),

Gene: Tyke_23 Start: 7716, Stop: 7943, Start Num: 5
Candidate Starts for Tyke_23:
(2, 7368), (3, 7557), (4, 7566), (Start: 5 @7716 has 169 MA's), (7, 7878), (8, 7893),

Gene: ValleyTerrace_20 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for ValleyTerrace_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Wally_20 Start: 6308, Stop: 6535, Start Num: 5
Candidate Starts for Wally_20:
(2, 5960), (3, 6149), (4, 6158), (Start: 5 @6308 has 169 MA's), (7, 6470), (8, 6485),

Gene: Willis_22 Start: 7313, Stop: 7540, Start Num: 5
Candidate Starts for Willis_22:
(2, 6965), (3, 7154), (4, 7163), (Start: 5 @7313 has 169 MA's), (7, 7475), (8, 7490),

Gene: Yassified_19 Start: 6311, Stop: 6538, Start Num: 5
Candidate Starts for Yassified_19:
(2, 5963), (3, 6152), (4, 6161), (Start: 5 @6311 has 169 MA's), (7, 6473), (8, 6488),

Gene: YemiJoy2021_22 Start: 7418, Stop: 7645, Start Num: 5
Candidate Starts for YemiJoy2021_22:
(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: YoungMoneyMata_21 Start: 6351, Stop: 6578, Start Num: 5
Candidate Starts for YoungMoneyMata_21:
(2, 6003), (3, 6192), (4, 6201), (Start: 5 @6351 has 169 MA's), (7, 6513), (8, 6528),

Gene: Yucca_21 Start: 7340, Stop: 7567, Start Num: 5

Candidate Starts for Yucca_21:

(2, 6992), (3, 7181), (4, 7190), (Start: 5 @7340 has 169 MA's), (7, 7502), (8, 7517),

Gene: Zalkecks_23 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for Zalkecks_23:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),

Gene: Zeenon_24 Start: 7419, Stop: 7646, Start Num: 5

Candidate Starts for Zeenon_24:

(2, 7071), (3, 7260), (4, 7269), (Start: 5 @7419 has 169 MA's), (7, 7581), (8, 7596),

Gene: ZygoTaiga_22 Start: 7418, Stop: 7645, Start Num: 5

Candidate Starts for ZygoTaiga_22:

(2, 7070), (3, 7259), (4, 7268), (Start: 5 @7418 has 169 MA's), (7, 7580), (8, 7595),