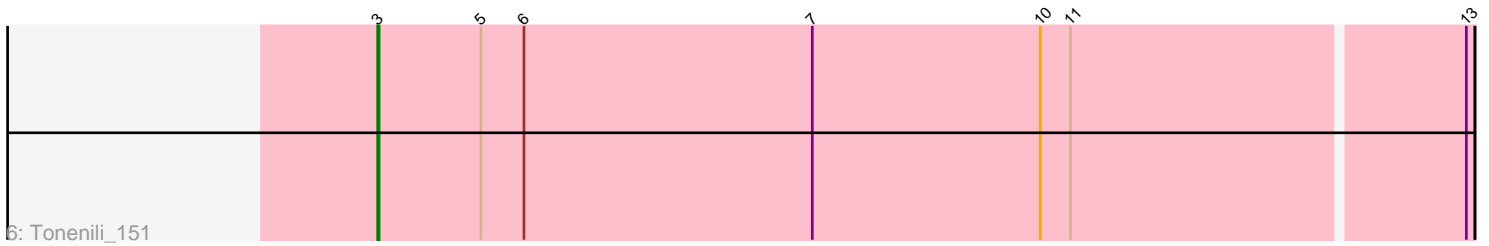
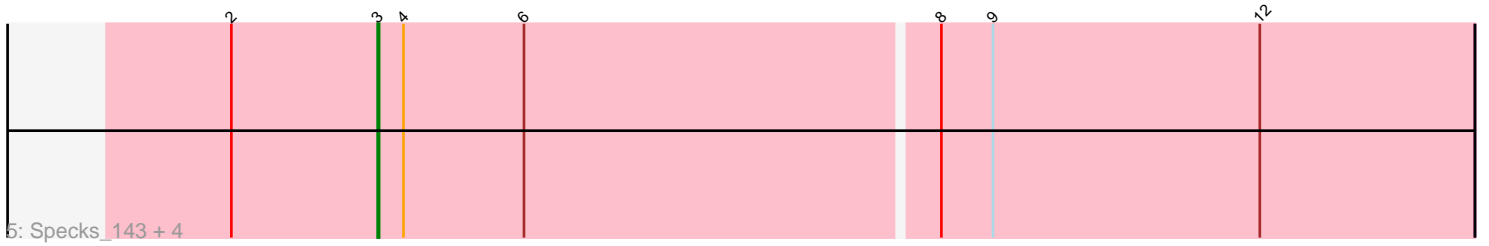
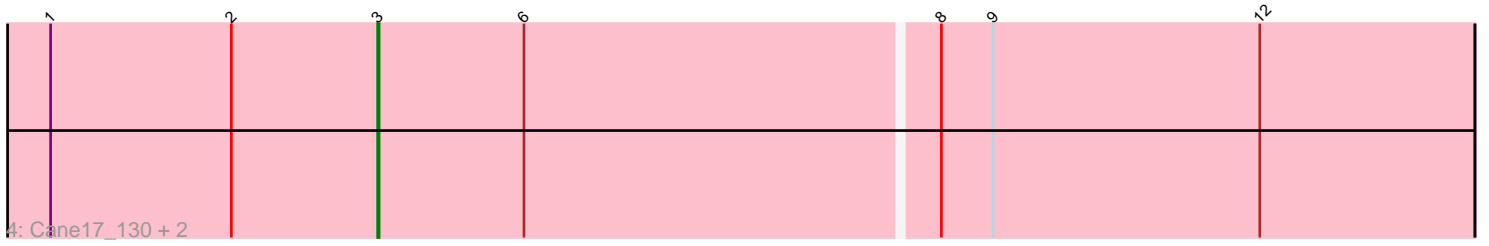
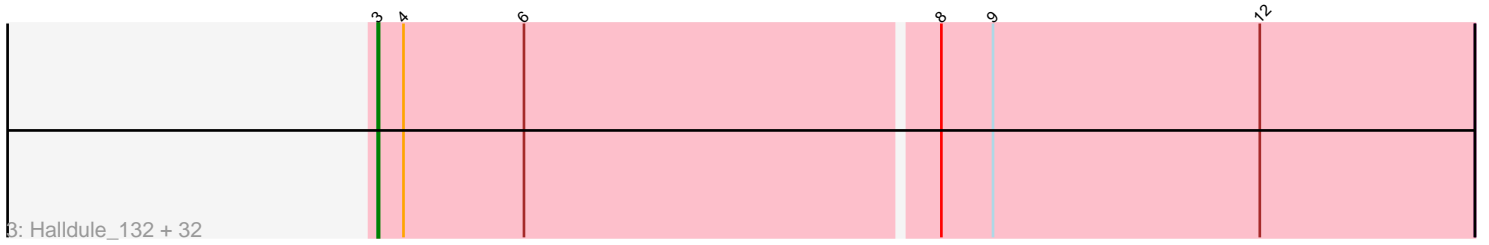
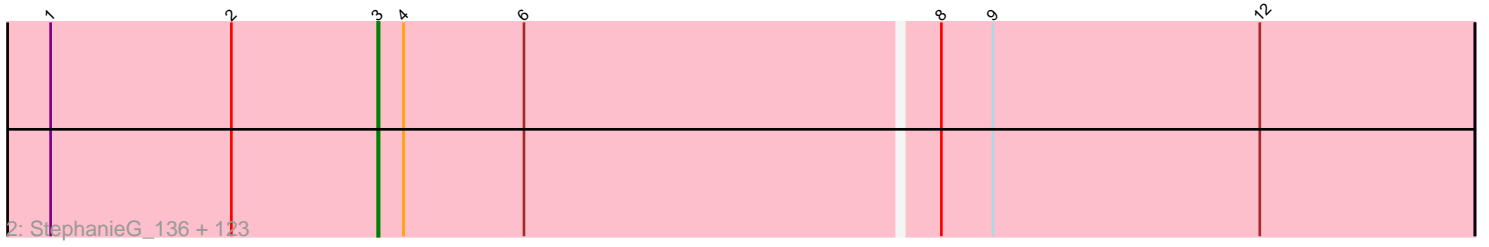
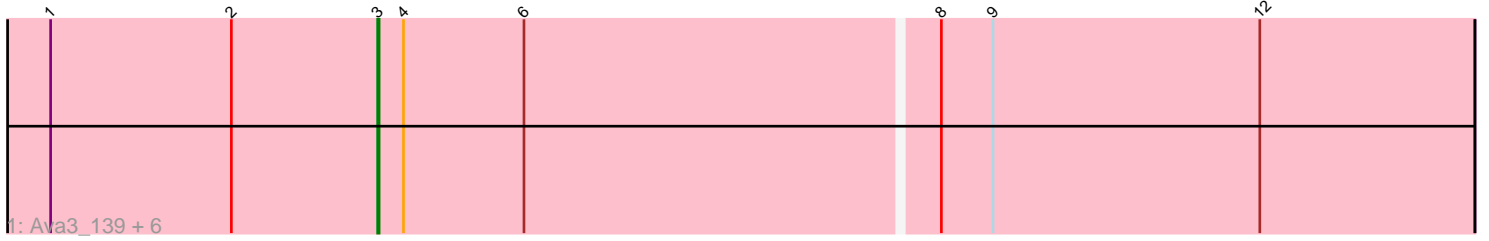


Pham 163378



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 163378 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163378 has 173 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Ava3_139, DrPhinkDaddy_137, FoxtrotP1_138, Ewok_139, Kamryn_138, Nidhogg_140, ZygoTaiga_136
- Track 2 : StephanieG_136, ArcherS7_137, Delilah_138, EasyJones_141, FrayBell_143, Maby2021_138, StubbySaigey_142, Dandelion_143, Cactojaque_134, Iota_133, EmToTheThree_140, Pleione_141, Momo_138, Alice_131, TinyTim_138, NoodleTree_145, EmmaElysia_139, Phox_135, DirtMonster_132, Mangeria_138, NuevoMundo_143, Tyke_138, Gamgam_139, BigCity_146, Yucca_137, Bxz1_135, Sprinklers_134, Wally_137, Bangla1971_139, Atlantean_138, NedWong_139, Pivoine_138, BackyardAgain_135, Capablanca_141, Dietrick_130, Nappy_140, SrishMeg2525_137, Jessibeth14_137, ParkTD_139, Tortoise16_135, Lee7_136, McWolfish_136, Latch_139, IkeLoa_132, ValleyTerrace_139, Drazdys_136, Daffodil_143, Kboogie_142, Rabinovish_137, Matsumoto_135, Caravan_132, Bigswole_141, BeanWater_130, Chomp_137, Stubby_131, Willis_139, Morizzled23_139, Pio_142, Roots515_137, Amataga_139, Gizmo_143, Shelob_140, Loanshark_137, Breeniome_137, Burrough_138, Fludd_139, BadAgartude_134, RoMag_133, Basquiat_135, Yassified_135, Rizal_133, Littleton_138, Megamind_137, Patter_139, Cali_133, SilverDipper_140, Grasshills_145, McGee_140, Bread_137, Babyland_140, LolaVinca_138, Khaleesi_137, Ngannou_135, Rahel_137, Issimir_137, ChickenPhender_134, Ading_138, LordLeafolot_142, I3_143, Shrimp_138, Janiyra_141, Norm_139, JPickles_135, Phlegm_142, YemiJoy2021_139, Darko_138, Charge21_135, Bipolarisk_137, Phusco_138, Audrick_141, Ghost_137, MoMoMixon_138, Naval22_143, Erdmann_138, Turret_134, Zalkecks_139, EggyFarm_146, Zeenon_139, Concombre_144, FudgeTart_136, Shaqnato_131, Izajani_138, InigoMontoya_141, Pier_142, Gabriel_138, Naija_138, Salacia_142, PurduePete_138, Asterius_135, ET08_126, MikeLiesIn_139, Catera_134, Delylah_141, Mikro_135
- Track 3 : Halldule_132, Essence_135, Jemmno_138, Derek_137, Jaygup_138, Shnickers_138, ScottMcG_134, QBert_132, Spud_137, Flabslab_133, Trinitium_136, DTDevon_138, YoungMoneyMata_140, Jediah_141, ChaylaJr_134, Bonray_139, CindyLou_140, Adlitam_139, JulietS_133, Guwapp_137, JustHall_136, ShiaLabeouf_137, Ronan_132, Spec_134, Blackbrain_134, LifeSavor_136, Napoleon13_134, SmallFry_138, CharlieB_135, ErnieJ_132, Quasimodo_140, Melpomini_132, JayJay_138
- Track 4 : Cane17_130, Blubba_132, Colt_130
- Track 5 : Specks_143, InterFolia_144, Astraea_134, Teardrop_137, BananaFence_137
- Track 6 : Tonenili_151

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

The start number called the most often in the published annotations is 3, it was called in 157 of the 157 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_138, Adlitam_139, Alice_131, Amataga_139, ArcherS7_137, Asterius_135, Astraea_134, Atlantean_138, Audrick_141, Ava3_139, Babyland_140, BackyardAgain_135, BadAgartude_134, BananaFence_137, Bangla1971_139, Basquiat_135, BeanWater_130, BigCity_146, Bigswole_141, Bipolarisk_137, Blackbrain_134, Blubba_132, Bonray_139, Bread_137, Breeniome_137, Burrough_138, Bxz1_135, Cactojaque_134, Cali_133, Cane17_130, Capablanca_141, Caravan_132, Catera_134, Chargie21_135, CharlieB_135, ChaylaJr_134, ChickenPhender_134, Chomp_137, CindyLou_140, Colt_130, Concombre_144, DTDevon_138, Daffodil_143, Dandelion_143, Darko_138, Delilah_138, Delylah_141, Derek_137, Dietrick_130, DirtMonster_132, DrPhinkDaddy_137, Drazdys_136, ET08_126, EasyJones_141, EggyFarm_146, EmToTheThree_140, EmmaElysia_139, Erdmann_138, ErnieJ_132, Essence_135, Ewok_139, Flabslab_133, Fludd_139, FoxtrotP1_138, FrayBell_143, FudgeTart_136, Gabriel_138, Gangam_139, Ghost_137, Gizmo_143, Grasshills_145, Guwapp_137, Halldule_132, I3_143, IkeLoa_132, InigoMontoya_141, InterFolia_144, Iota_133, Issimir_137, Izajani_138, JPickles_135, Janiyra_141, JayJay_138, Jaygup_138, Jedediah_141, Jemmno_138, Jessibeth14_137, JulietS_133, JustHall_136, Kamryn_138, Kboogie_142, Khaleesi_137, Latch_139, Lee7_136, LifeSavor_136, Littleton_138, Loanshark_137, LolaVinca_138, LordLeafolot_142, Maby2021_138, Mangeria_138, Matsumoto_135, McGee_140, McWolfish_136, Megamind_137, Melpomini_132, MikeLiesIn_139, Mikro_135, MoMoMixon_138, Momo_138, Morizzled23_139, Naija_138, Napoleon13_134, Nappy_140, Naval22_143, NedWong_139, Ngannou_135, Nidhogg_140, NoodleTree_145, Norm_139, NuevoMundo_143, ParkTD_139, Patter_139, Phlegm_142, Phox_135, Phusco_138, Pier_142, Pio_142, Pivoine_138, Pleione_141, PurduePete_138, QBert_132, Quasimodo_140, Rabinovish_137, Rahel_137, Rizal_133, RoMag_133, Ronan_132, Roots515_137, Salacia_142, ScottMcG_134, Shaqnato_131, Shelob_140, ShiaLabeouf_137, Shnickers_138, Shrimp_138, SilverDipper_140, SmallFry_138, Spec_134, Specks_143, Sprinklers_134, Spud_137, SrishMeg2525_137, StephanieG_136, StubbySaigey_142, Stubby_131, Teardrop_137, TinyTim_138, Tonenili_151, Tortoise16_135, Trinitium_136, Turret_134, Tyke_138, ValleyTerrace_139, Wally_137, Willis_139, Yassified_135, YemiJoy2021_139, YoungMoneyMata_140, Yucca_137, Zalkecks_139, Zeenon_139, ZygoTaiga_136,

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 3:

- Found in 173 of 173 (100.0%) of genes in pham
- Manual Annotations of this start: 157 of 157
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ading_138 (C1), Adlitam_139 (C1), Alice_131 (C1), Amataga_139 (C1), ArcherS7_137 (C1), Asterius_135 (C1), Astraea_134 (C1), Atlantean_138 (C1), Audrick_141 (C1), Ava3_139 (C1), Babyland_140 (C1), BackyardAgain_135 (C1), BadAgartude_134 (C1), BananaFence_137 (C1), Bangla1971_139 (C1), Basquiat_135 (C1), BeanWater_130 (C1), BigCity_146 (C1), Bigswole_141 (C1), Bipolarisk_137 (C1), Blackbrain_134 (C1), Blubba_132 (C1), Bonray_139 (C1), Bread_137 (C1), Breeniome_137 (C1), Burrough_138 (C1), Bxz1_135 (C1), Cactojaque_134 (C1), Cali_133 (C1), Cane17_130 (C1), Capablanca_141 (C1), Caravan_132 (C1), Catera_134 (C1), Chargie21_135 (C1), CharlieB_135 (C1), ChaylaJr_134 (C1), ChickenPhender_134 (C1), Chomp_137 (C1), CindyLou_140 (C1), Colt_130 (C1), Concombre_144 (C1), DTDevon_138 (C1), Daffodil_143 (C1), Dandelion_143 (C1), Darko_138 (C1), Delilah_138 (C1), Delylah_141 (C1), Derek_137 (C1), Dietrick_130 (C1), DirtMonster_132 (C1), DrPhinkDaddy_137 (C1), Drazdys_136 (C1), ET08_126 (C1), EasyJones_141 (C1), EggyFarm_146 (C1), EmToTheThree_140 (C1), EmmaElysia_139 (C1), Erdmann_138 (C1), ErnieJ_132 (C1), Essence_135 (C1), Ewok_139 (C1), Flabslab_133 (C1), Fludd_139 (C1), FoxtrotP1_138 (C1), FrayBell_143 (C1), FudgeTart_136 (C1), Gabriel_138 (C1), Gamgam_139 (C1), Ghost_137 (C1), Gizmo_143 (C1), Grasshills_145 (C1), Guwapp_137 (C1), Halldule_132 (C1), I3_143 (C1), IkeLoa_132 (C1), InigoMontoya_141 (C1), InterFolia_144 (C1), Iota_133 (C1), Issimir_137 (C1), Izajani_138 (C1), JPickles_135 (C1), Janiyr_141 (C1), JayJay_138 (C1), Jaygup_138 (C1), Jedediah_141 (C1), Jemmno_138 (C1), Jessibeth14_137 (C1), JulietS_133 (C1), JustHall_136 (C1), Kamryn_138 (C1), Kboogie_142 (C1), Khaleesi_137 (C1), Latch_139 (C1), Lee7_136 (C1), LifeSavor_136 (C1), Littleton_138 (C1), Loanshark_137 (C1), LolaVinca_138 (C1), LordLeafolot_142 (C1), Maby2021_138 (C1), Mangeria_138 (C1), Matsumoto_135 (C1), McGee_140 (C1), McWolfish_136 (C1), Megamind_137 (C1), Melpomini_132 (C1), MikeLiesIn_139 (C1), Mikro_135 (C1), MoMoMixon_138 (C1), Momo_138 (C1), Morizzled23_139 (C1), Naija_138 (C1), Napoleon13_134 (C1), Nappy_140 (C1), Naval22_143 (C1), NedWong_139 (C1), Ngannou_135 (C1), Nidhogg_140 (C1), NoodleTree_145 (C1), Norm_139 (C1), NuevoMundo_143 (C1), ParkTD_139 (C1), Patter_139 (C1), Phlegm_142 (C1), Phox_135 (C1), Phusco_138 (C1), Pier_142 (C1), Pio_142 (C1), Pivoine_138 (C1), Pleione_141 (C1), PurduePete_138 (C1), QBert_132 (C1), Quasimodo_140 (C1), Rabinovish_137 (C1), Rahel_137 (C1), Rizal_133 (C1), RoMag_133 (C1), Ronan_132 (C1), Roots515_137 (C1), Salacia_142 (C1), ScottMcG_134 (C1), Shaqnato_131 (C1), Shelob_140 (C1), ShiaLabeouf_137 (C1), Shnickers_138 (C1), Shrimp_138 (C1), SilverDipper_140 (C1), SmallFry_138 (C1), Spec_134 (C1), Specks_143 (C1), Sprinklers_134 (C1), Spud_137 (C1), SrishMeg2525_137 (C1), StephanieG_136 (C1), StubbySaigey_142 (C1), Stubby_131 (C1), Teardrop_137 (C1), TinyTim_138 (C1), Tonenili_151 (C1), Tortoise16_135 (C1), Trinitium_136 (C1), Turret_134 (C1), Tyke_138 (C1), ValleyTerrace_139 (C1), Wally_137 (C1), Willis_139 (C1), Yassified_135 (C1), YemiJoy2021_139 (C1), YoungMoneyMata_140 (C1), Yucca_137 (C1), Zalkecks_139 (C1), Zeenon_139 (C1), ZygoTaiga_136 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 3 was manually annotated 157 times for cluster C1.

Gene Information:

Gene: Ading_138 Start: 79597, Stop: 80352, Start Num: 3

Candidate Starts for Ading_138:

(1, 79369), (2, 79495), (Start: 3 @79597 has 157 MA's), (4, 79615), (6, 79699), (8, 79981), (9, 80017), (12, 80203),

Gene: Adlitam_139 Start: 80093, Stop: 80848, Start Num: 3

Candidate Starts for Adlitam_139:

(Start: 3 @80093 has 157 MA's), (4, 80111), (6, 80195), (8, 80477), (9, 80513), (12, 80699),

Gene: Alice_131 Start: 79318, Stop: 80073, Start Num: 3

Candidate Starts for Alice_131:

(1, 79090), (2, 79216), (Start: 3 @79318 has 157 MA's), (4, 79336), (6, 79420), (8, 79702), (9, 79738), (12, 79924),

Gene: Amataga_139 Start: 79338, Stop: 80093, Start Num: 3

Candidate Starts for Amataga_139:

(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758), (12, 79944),

Gene: ArcherS7_137 Start: 79177, Stop: 79932, Start Num: 3

Candidate Starts for ArcherS7_137:

(1, 78949), (2, 79075), (Start: 3 @79177 has 157 MA's), (4, 79195), (6, 79279), (8, 79561), (9, 79597), (12, 79783),

Gene: Asterius_135 Start: 79853, Stop: 80608, Start Num: 3

Candidate Starts for Asterius_135:

(1, 79625), (2, 79751), (Start: 3 @79853 has 157 MA's), (4, 79871), (6, 79955), (8, 80237), (9, 80273), (12, 80459),

Gene: Astraea_134 Start: 78618, Stop: 79373, Start Num: 3

Candidate Starts for Astraea_134:

(2, 78516), (Start: 3 @78618 has 157 MA's), (4, 78636), (6, 78720), (8, 79002), (9, 79038), (12, 79224),

Gene: Atlantean_138 Start: 79338, Stop: 80093, Start Num: 3

Candidate Starts for Atlantean_138:

(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758), (12, 79944),

Gene: Audrick_141 Start: 79317, Stop: 80072, Start Num: 3

Candidate Starts for Audrick_141:

(1, 79089), (2, 79215), (Start: 3 @79317 has 157 MA's), (4, 79335), (6, 79419), (8, 79701), (9, 79737), (12, 79923),

Gene: Ava3_139 Start: 79762, Stop: 80517, Start Num: 3

Candidate Starts for Ava3_139:

(1, 79534), (2, 79660), (Start: 3 @79762 has 157 MA's), (4, 79780), (6, 79864), (8, 80146), (9, 80182), (12, 80368),

Gene: Babyland_140 Start: 79416, Stop: 80171, Start Num: 3

Candidate Starts for Babyland_140:

(1, 79188), (2, 79314), (Start: 3 @79416 has 157 MA's), (4, 79434), (6, 79518), (8, 79800), (9, 79836), (12, 80022),

Gene: BackyardAgain_135 Start: 78765, Stop: 79520, Start Num: 3

Candidate Starts for BackyardAgain_135:

(1, 78537), (2, 78663), (Start: 3 @78765 has 157 MA's), (4, 78783), (6, 78867), (8, 79149), (9, 79185), (12, 79371),

Gene: BadAgartude_134 Start: 80064, Stop: 80819, Start Num: 3

Candidate Starts for BadAgartude_134:

(1, 79836), (2, 79962), (Start: 3 @80064 has 157 MA's), (4, 80082), (6, 80166), (8, 80448), (9, 80484), (12, 80670),

Gene: BananaFence_137 Start: 80018, Stop: 80773, Start Num: 3

Candidate Starts for BananaFence_137:

(2, 79916), (Start: 3 @80018 has 157 MA's), (4, 80036), (6, 80120), (8, 80402), (9, 80438), (12, 80624),

Gene: Bangla1971_139 Start: 79307, Stop: 80062, Start Num: 3

Candidate Starts for Bangla1971_139:

(1, 79079), (2, 79205), (Start: 3 @79307 has 157 MA's), (4, 79325), (6, 79409), (8, 79691), (9, 79727), (12, 79913),

Gene: Basquiat_135 Start: 78916, Stop: 79671, Start Num: 3

Candidate Starts for Basquiat_135:

(1, 78688), (2, 78814), (Start: 3 @78916 has 157 MA's), (4, 78934), (6, 79018), (8, 79300), (9, 79336), (12, 79522),

Gene: BeanWater_130 Start: 79616, Stop: 80371, Start Num: 3

Candidate Starts for BeanWater_130:

(1, 79388), (2, 79514), (Start: 3 @79616 has 157 MA's), (4, 79634), (6, 79718), (8, 80000), (9, 80036), (12, 80222),

Gene: BigCity_146 Start: 82288, Stop: 83043, Start Num: 3

Candidate Starts for BigCity_146:

(1, 82060), (2, 82186), (Start: 3 @82288 has 157 MA's), (4, 82306), (6, 82390), (8, 82672), (9, 82708), (12, 82894),

Gene: Bigswole_141 Start: 81573, Stop: 82328, Start Num: 3

Candidate Starts for Bigswole_141:

(1, 81345), (2, 81471), (Start: 3 @81573 has 157 MA's), (4, 81591), (6, 81675), (8, 81957), (9, 81993), (12, 82179),

Gene: Bipolarisk_137 Start: 80030, Stop: 80785, Start Num: 3

Candidate Starts for Bipolarisk_137:

(1, 79802), (2, 79928), (Start: 3 @80030 has 157 MA's), (4, 80048), (6, 80132), (8, 80414), (9, 80450), (12, 80636),

Gene: Blackbrain_134 Start: 78801, Stop: 79556, Start Num: 3

Candidate Starts for Blackbrain_134:

(Start: 3 @78801 has 157 MA's), (4, 78819), (6, 78903), (8, 79185), (9, 79221), (12, 79407),

Gene: Blubba_132 Start: 81163, Stop: 81918, Start Num: 3

Candidate Starts for Blubba_132:

(1, 80935), (2, 81061), (Start: 3 @81163 has 157 MA's), (6, 81265), (8, 81547), (9, 81583), (12, 81769),

Gene: Bonray_139 Start: 80672, Stop: 81427, Start Num: 3

Candidate Starts for Bonray_139:

(Start: 3 @80672 has 157 MA's), (4, 80690), (6, 80774), (8, 81056), (9, 81092), (12, 81278),

Gene: Bread_137 Start: 79848, Stop: 80603, Start Num: 3

Candidate Starts for Bread_137:

(1, 79620), (2, 79746), (Start: 3 @79848 has 157 MA's), (4, 79866), (6, 79950), (8, 80232), (9, 80268), (12, 80454),

Gene: Breeniome_137 Start: 78206, Stop: 78961, Start Num: 3

Candidate Starts for Breeniome_137:

(1, 77978), (2, 78104), (Start: 3 @78206 has 157 MA's), (4, 78224), (6, 78308), (8, 78590), (9, 78626), (12, 78812),

Gene: Burrough_138 Start: 80357, Stop: 81112, Start Num: 3

Candidate Starts for Burrough_138:

(1, 80129), (2, 80255), (Start: 3 @80357 has 157 MA's), (4, 80375), (6, 80459), (8, 80741), (9, 80777), (12, 80963),

Gene: Bxz1_135 Start: 81560, Stop: 82315, Start Num: 3

Candidate Starts for Bxz1_135:

(1, 81332), (2, 81458), (Start: 3 @81560 has 157 MA's), (4, 81578), (6, 81662), (8, 81944), (9, 81980), (12, 82166),

Gene: Cactojaque_134 Start: 78908, Stop: 79663, Start Num: 3

Candidate Starts for Cactojaque_134:

(1, 78680), (2, 78806), (Start: 3 @78908 has 157 MA's), (4, 78926), (6, 79010), (8, 79292), (9, 79328), (12, 79514),

Gene: Cali_133 Start: 80359, Stop: 81114, Start Num: 3

Candidate Starts for Cali_133:

(1, 80131), (2, 80257), (Start: 3 @80359 has 157 MA's), (4, 80377), (6, 80461), (8, 80743), (9, 80779), (12, 80965),

Gene: Cane17_130 Start: 81221, Stop: 81976, Start Num: 3

Candidate Starts for Cane17_130:

(1, 80993), (2, 81119), (Start: 3 @81221 has 157 MA's), (6, 81323), (8, 81605), (9, 81641), (12, 81827),

Gene: Capablanca_141 Start: 81088, Stop: 81843, Start Num: 3

Candidate Starts for Capablanca_141:

(1, 80860), (2, 80986), (Start: 3 @81088 has 157 MA's), (4, 81106), (6, 81190), (8, 81472), (9, 81508), (12, 81694),

Gene: Caravan_132 Start: 79716, Stop: 80471, Start Num: 3

Candidate Starts for Caravan_132:

(1, 79488), (2, 79614), (Start: 3 @79716 has 157 MA's), (4, 79734), (6, 79818), (8, 80100), (9, 80136), (12, 80322),

Gene: Catera_134 Start: 78623, Stop: 79378, Start Num: 3

Candidate Starts for Catera_134:

(1, 78395), (2, 78521), (Start: 3 @78623 has 157 MA's), (4, 78641), (6, 78725), (8, 79007), (9, 79043), (12, 79229),

Gene: Chargie21_135 Start: 78916, Stop: 79671, Start Num: 3

Candidate Starts for Chargie21_135:

(1, 78688), (2, 78814), (Start: 3 @78916 has 157 MA's), (4, 78934), (6, 79018), (8, 79300), (9, 79336), (12, 79522),

Gene: CharlieB_135 Start: 79242, Stop: 79997, Start Num: 3

Candidate Starts for CharlieB_135:

(Start: 3 @79242 has 157 MA's), (4, 79260), (6, 79344), (8, 79626), (9, 79662), (12, 79848),

Gene: ChaylaJr_134 Start: 78724, Stop: 79479, Start Num: 3

Candidate Starts for ChaylaJr_134:

(Start: 3 @78724 has 157 MA's), (4, 78742), (6, 78826), (8, 79108), (9, 79144), (12, 79330),

Gene: ChickenPhender_134 Start: 78548, Stop: 79303, Start Num: 3

Candidate Starts for ChickenPhender_134:

(1, 78320), (2, 78446), (Start: 3 @78548 has 157 MA's), (4, 78566), (6, 78650), (8, 78932), (9, 78968), (12, 79154),

Gene: Chomp_137 Start: 80627, Stop: 81382, Start Num: 3

Candidate Starts for Chomp_137:

(1, 80399), (2, 80525), (Start: 3 @80627 has 157 MA's), (4, 80645), (6, 80729), (8, 81011), (9, 81047), (12, 81233),

Gene: CindyLou_140 Start: 80667, Stop: 81422, Start Num: 3

Candidate Starts for CindyLou_140:

(Start: 3 @80667 has 157 MA's), (4, 80685), (6, 80769), (8, 81051), (9, 81087), (12, 81273),

Gene: Colt_130 Start: 81338, Stop: 82093, Start Num: 3

Candidate Starts for Colt_130:

(1, 81110), (2, 81236), (Start: 3 @81338 has 157 MA's), (6, 81440), (8, 81722), (9, 81758), (12, 81944),

Gene: Concombres_144 Start: 82521, Stop: 83276, Start Num: 3

Candidate Starts for Concombres_144:

(1, 82293), (2, 82419), (Start: 3 @82521 has 157 MA's), (4, 82539), (6, 82623), (8, 82905), (9, 82941), (12, 83127),

Gene: DTDevon_138 Start: 80389, Stop: 81144, Start Num: 3

Candidate Starts for DTDevon_138:

(Start: 3 @80389 has 157 MA's), (4, 80407), (6, 80491), (8, 80773), (9, 80809), (12, 80995),

Gene: Daffodil_143 Start: 80330, Stop: 81085, Start Num: 3

Candidate Starts for Daffodil_143:

(1, 80102), (2, 80228), (Start: 3 @80330 has 157 MA's), (4, 80348), (6, 80432), (8, 80714), (9, 80750), (12, 80936),

Gene: Dandelion_143 Start: 82522, Stop: 83277, Start Num: 3

Candidate Starts for Dandelion_143:

(1, 82294), (2, 82420), (Start: 3 @82522 has 157 MA's), (4, 82540), (6, 82624), (8, 82906), (9, 82942), (12, 83128),

Gene: Darko_138 Start: 80022, Stop: 80777, Start Num: 3

Candidate Starts for Darko_138:

(1, 79794), (2, 79920), (Start: 3 @80022 has 157 MA's), (4, 80040), (6, 80124), (8, 80406), (9, 80442), (12, 80628),

Gene: Delilah_138 Start: 80484, Stop: 81239, Start Num: 3

Candidate Starts for Delilah_138:

(1, 80256), (2, 80382), (Start: 3 @80484 has 157 MA's), (4, 80502), (6, 80586), (8, 80868), (9, 80904), (12, 81090),

Gene: Delylah_141 Start: 80023, Stop: 80778, Start Num: 3

Candidate Starts for Delylah_141:

(1, 79795), (2, 79921), (Start: 3 @80023 has 157 MA's), (4, 80041), (6, 80125), (8, 80407), (9, 80443), (12, 80629),

Gene: Derek_137 Start: 79949, Stop: 80704, Start Num: 3

Candidate Starts for Derek_137:

(Start: 3 @79949 has 157 MA's), (4, 79967), (6, 80051), (8, 80333), (9, 80369), (12, 80555),

Gene: Dietrick_130 Start: 78025, Stop: 78780, Start Num: 3

Candidate Starts for Dietrick_130:

(1, 77797), (2, 77923), (Start: 3 @78025 has 157 MA's), (4, 78043), (6, 78127), (8, 78409), (9, 78445), (12, 78631),

Gene: DirtMonster_132 Start: 79283, Stop: 80038, Start Num: 3

Candidate Starts for DirtMonster_132:

(1, 79055), (2, 79181), (Start: 3 @79283 has 157 MA's), (4, 79301), (6, 79385), (8, 79667), (9, 79703), (12, 79889),

Gene: DrPhinkDaddy_137 Start: 80542, Stop: 81297, Start Num: 3

Candidate Starts for DrPhinkDaddy_137:

(1, 80314), (2, 80440), (Start: 3 @80542 has 157 MA's), (4, 80560), (6, 80644), (8, 80926), (9, 80962), (12, 81148),

Gene: Drazdys_136 Start: 79013, Stop: 79768, Start Num: 3

Candidate Starts for Drazdys_136:

(1, 78785), (2, 78911), (Start: 3 @79013 has 157 MA's), (4, 79031), (6, 79115), (8, 79397), (9, 79433), (12, 79619),

Gene: ET08_126 Start: 79003, Stop: 79758, Start Num: 3

Candidate Starts for ET08_126:

(1, 78775), (2, 78901), (Start: 3 @79003 has 157 MA's), (4, 79021), (6, 79105), (8, 79387), (9, 79423), (12, 79609),

Gene: EasyJones_141 Start: 79570, Stop: 80325, Start Num: 3

Candidate Starts for EasyJones_141:

(1, 79342), (2, 79468), (Start: 3 @79570 has 157 MA's), (4, 79588), (6, 79672), (8, 79954), (9, 79990), (12, 80176),

Gene: EggyFarm_146 Start: 82288, Stop: 83043, Start Num: 3

Candidate Starts for EggyFarm_146:

(1, 82060), (2, 82186), (Start: 3 @82288 has 157 MA's), (4, 82306), (6, 82390), (8, 82672), (9, 82708), (12, 82894),

Gene: EmToTheThree_140 Start: 81282, Stop: 82037, Start Num: 3

Candidate Starts for EmToTheThree_140:

(1, 81054), (2, 81180), (Start: 3 @81282 has 157 MA's), (4, 81300), (6, 81384), (8, 81666), (9, 81702), (12, 81888),

Gene: EmmaElysia_139 Start: 79557, Stop: 80312, Start Num: 3

Candidate Starts for EmmaElysia_139:

(1, 79329), (2, 79455), (Start: 3 @79557 has 157 MA's), (4, 79575), (6, 79659), (8, 79941), (9, 79977), (12, 80163),

Gene: Erdmann_138 Start: 80331, Stop: 81086, Start Num: 3

Candidate Starts for Erdmann_138:

(1, 80103), (2, 80229), (Start: 3 @80331 has 157 MA's), (4, 80349), (6, 80433), (8, 80715), (9, 80751), (12, 80937),

Gene: ErnieJ_132 Start: 78300, Stop: 79055, Start Num: 3

Candidate Starts for ErnieJ_132:

(Start: 3 @78300 has 157 MA's), (4, 78318), (6, 78402), (8, 78684), (9, 78720), (12, 78906),

Gene: Essence_135 Start: 79179, Stop: 79934, Start Num: 3

Candidate Starts for Essence_135:

(Start: 3 @79179 has 157 MA's), (4, 79197), (6, 79281), (8, 79563), (9, 79599), (12, 79785),

Gene: Ewok_139 Start: 79708, Stop: 80463, Start Num: 3

Candidate Starts for Ewok_139:

(1, 79480), (2, 79606), (Start: 3 @79708 has 157 MA's), (4, 79726), (6, 79810), (8, 80092), (9, 80128), (12, 80314),

Gene: Flabslab_133 Start: 77890, Stop: 78645, Start Num: 3

Candidate Starts for Flabslab_133:

(Start: 3 @77890 has 157 MA's), (4, 77908), (6, 77992), (8, 78274), (9, 78310), (12, 78496),

Gene: Fludd_139 Start: 79356, Stop: 80111, Start Num: 3

Candidate Starts for Fludd_139:

(1, 79128), (2, 79254), (Start: 3 @79356 has 157 MA's), (4, 79374), (6, 79458), (8, 79740), (9, 79776), (12, 79962),

Gene: FoxtrotP1_138 Start: 81491, Stop: 82246, Start Num: 3

Candidate Starts for FoxtrotP1_138:

(1, 81263), (2, 81389), (Start: 3 @81491 has 157 MA's), (4, 81509), (6, 81593), (8, 81875), (9, 81911), (12, 82097),

Gene: FrayBell_143 Start: 80655, Stop: 81410, Start Num: 3

Candidate Starts for FrayBell_143:

(1, 80427), (2, 80553), (Start: 3 @80655 has 157 MA's), (4, 80673), (6, 80757), (8, 81039), (9, 81075), (12, 81261),

Gene: FudgeTart_136 Start: 79361, Stop: 80116, Start Num: 3

Candidate Starts for FudgeTart_136:

(1, 79133), (2, 79259), (Start: 3 @79361 has 157 MA's), (4, 79379), (6, 79463), (8, 79745), (9, 79781), (12, 79967),

Gene: Gabriel_138 Start: 78585, Stop: 79340, Start Num: 3

Candidate Starts for Gabriel_138:

(1, 78357), (2, 78483), (Start: 3 @78585 has 157 MA's), (4, 78603), (6, 78687), (8, 78969), (9, 79005), (12, 79191),

Gene: Gamgam_139 Start: 79328, Stop: 80083, Start Num: 3

Candidate Starts for Gamgam_139:

(1, 79100), (2, 79226), (Start: 3 @79328 has 157 MA's), (4, 79346), (6, 79430), (8, 79712), (9, 79748), (12, 79934),

Gene: Ghost_137 Start: 79338, Stop: 80093, Start Num: 3

Candidate Starts for Ghost_137:

(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758), (12, 79944),

Gene: Gizmo_143 Start: 81960, Stop: 82715, Start Num: 3

Candidate Starts for Gizmo_143:

(1, 81732), (2, 81858), (Start: 3 @81960 has 157 MA's), (4, 81978), (6, 82062), (8, 82344), (9, 82380), (12, 82566),

Gene: Grasshills_145 Start: 82288, Stop: 83043, Start Num: 3

Candidate Starts for Grasshills_145:

(1, 82060), (2, 82186), (Start: 3 @82288 has 157 MA's), (4, 82306), (6, 82390), (8, 82672), (9, 82708), (12, 82894),

Gene: Guwapp_137 Start: 78750, Stop: 79505, Start Num: 3

Candidate Starts for Guwapp_137:

(Start: 3 @78750 has 157 MA's), (4, 78768), (6, 78852), (8, 79134), (9, 79170), (12, 79356),

Gene: Halldule_132 Start: 77629, Stop: 78384, Start Num: 3

Candidate Starts for Halldule_132:

(Start: 3 @77629 has 157 MA's), (4, 77647), (6, 77731), (8, 78013), (9, 78049), (12, 78235),

Gene: I3_143 Start: 80816, Stop: 81571, Start Num: 3

Candidate Starts for I3_143:

(1, 80588), (2, 80714), (Start: 3 @80816 has 157 MA's), (4, 80834), (6, 80918), (8, 81200), (9, 81236), (12, 81422),

Gene: IkeLoa_132 Start: 79236, Stop: 79991, Start Num: 3

Candidate Starts for IkeLoa_132:

(1, 79008), (2, 79134), (Start: 3 @79236 has 157 MA's), (4, 79254), (6, 79338), (8, 79620), (9, 79656), (12, 79842),

Gene: InigoMontoya_141 Start: 79299, Stop: 80054, Start Num: 3

Candidate Starts for InigoMontoya_141:

(1, 79071), (2, 79197), (Start: 3 @79299 has 157 MA's), (4, 79317), (6, 79401), (8, 79683), (9, 79719), (12, 79905),

Gene: InterFolia_144 Start: 81590, Stop: 82345, Start Num: 3

Candidate Starts for InterFolia_144:

(2, 81488), (Start: 3 @81590 has 157 MA's), (4, 81608), (6, 81692), (8, 81974), (9, 82010), (12, 82196),

Gene: Iota_133 Start: 79287, Stop: 80042, Start Num: 3

Candidate Starts for Iota_133:

(1, 79059), (2, 79185), (Start: 3 @79287 has 157 MA's), (4, 79305), (6, 79389), (8, 79671), (9, 79707), (12, 79893),

Gene: Issimir_137 Start: 80295, Stop: 81050, Start Num: 3

Candidate Starts for Issimir_137:

(1, 80067), (2, 80193), (Start: 3 @80295 has 157 MA's), (4, 80313), (6, 80397), (8, 80679), (9, 80715), (12, 80901),

Gene: Izajani_138 Start: 80501, Stop: 81256, Start Num: 3

Candidate Starts for Izajani_138:

(1, 80273), (2, 80399), (Start: 3 @80501 has 157 MA's), (4, 80519), (6, 80603), (8, 80885), (9, 80921), (12, 81107),

Gene: JPickles_135 Start: 78090, Stop: 78845, Start Num: 3

Candidate Starts for JPickles_135:

(1, 77862), (2, 77988), (Start: 3 @78090 has 157 MA's), (4, 78108), (6, 78192), (8, 78474), (9, 78510), (12, 78696),

Gene: Janiyra_141 Start: 80265, Stop: 81020, Start Num: 3

Candidate Starts for Janiyra_141:

(1, 80037), (2, 80163), (Start: 3 @80265 has 157 MA's), (4, 80283), (6, 80367), (8, 80649), (9, 80685), (12, 80871),

Gene: JayJay_138 Start: 81296, Stop: 82051, Start Num: 3

Candidate Starts for JayJay_138:

(Start: 3 @81296 has 157 MA's), (4, 81314), (6, 81398), (8, 81680), (9, 81716), (12, 81902),

Gene: Jaygup_138 Start: 79615, Stop: 80370, Start Num: 3

Candidate Starts for Jaygup_138:

(Start: 3 @79615 has 157 MA's), (4, 79633), (6, 79717), (8, 79999), (9, 80035), (12, 80221),

Gene: Jedediah_141 Start: 80148, Stop: 80903, Start Num: 3

Candidate Starts for Jedediah_141:

(Start: 3 @80148 has 157 MA's), (4, 80166), (6, 80250), (8, 80532), (9, 80568), (12, 80754),

Gene: Jemmno_138 Start: 79595, Stop: 80350, Start Num: 3

Candidate Starts for Jemmno_138:

(Start: 3 @79595 has 157 MA's), (4, 79613), (6, 79697), (8, 79979), (9, 80015), (12, 80201),

Gene: Jessibeth14_137 Start: 80127, Stop: 80882, Start Num: 3

Candidate Starts for Jessibeth14_137:

(1, 79899), (2, 80025), (Start: 3 @80127 has 157 MA's), (4, 80145), (6, 80229), (8, 80511), (9, 80547), (12, 80733),

Gene: JulietS_133 Start: 77482, Stop: 78237, Start Num: 3
Candidate Starts for JulietS_133:
(Start: 3 @77482 has 157 MA's), (4, 77500), (6, 77584), (8, 77866), (9, 77902), (12, 78088),

Gene: JustHall_136 Start: 80123, Stop: 80878, Start Num: 3
Candidate Starts for JustHall_136:
(Start: 3 @80123 has 157 MA's), (4, 80141), (6, 80225), (8, 80507), (9, 80543), (12, 80729),

Gene: Kamryn_138 Start: 80933, Stop: 81688, Start Num: 3
Candidate Starts for Kamryn_138:
(1, 80705), (2, 80831), (Start: 3 @80933 has 157 MA's), (4, 80951), (6, 81035), (8, 81317), (9, 81353),
(12, 81539),

Gene: Kboogie_142 Start: 79288, Stop: 80043, Start Num: 3
Candidate Starts for Kboogie_142:
(1, 79060), (2, 79186), (Start: 3 @79288 has 157 MA's), (4, 79306), (6, 79390), (8, 79672), (9, 79708),
(12, 79894),

Gene: Khaleesi_137 Start: 80230, Stop: 80985, Start Num: 3
Candidate Starts for Khaleesi_137:
(1, 80002), (2, 80128), (Start: 3 @80230 has 157 MA's), (4, 80248), (6, 80332), (8, 80614), (9, 80650),
(12, 80836),

Gene: Latch_139 Start: 79338, Stop: 80093, Start Num: 3
Candidate Starts for Latch_139:
(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758),
(12, 79944),

Gene: Lee7_136 Start: 80854, Stop: 81609, Start Num: 3
Candidate Starts for Lee7_136:
(1, 80626), (2, 80752), (Start: 3 @80854 has 157 MA's), (4, 80872), (6, 80956), (8, 81238), (9, 81274),
(12, 81460),

Gene: LifeSavor_136 Start: 79547, Stop: 80302, Start Num: 3
Candidate Starts for LifeSavor_136:
(Start: 3 @79547 has 157 MA's), (4, 79565), (6, 79649), (8, 79931), (9, 79967), (12, 80153),

Gene: Littleton_138 Start: 79667, Stop: 80422, Start Num: 3
Candidate Starts for Littleton_138:
(1, 79439), (2, 79565), (Start: 3 @79667 has 157 MA's), (4, 79685), (6, 79769), (8, 80051), (9, 80087),
(12, 80273),

Gene: Loanshark_137 Start: 80198, Stop: 80953, Start Num: 3
Candidate Starts for Loanshark_137:
(1, 79970), (2, 80096), (Start: 3 @80198 has 157 MA's), (4, 80216), (6, 80300), (8, 80582), (9, 80618),
(12, 80804),

Gene: LolaVinca_138 Start: 80541, Stop: 81296, Start Num: 3
Candidate Starts for LolaVinca_138:
(1, 80313), (2, 80439), (Start: 3 @80541 has 157 MA's), (4, 80559), (6, 80643), (8, 80925), (9, 80961),
(12, 81147),

Gene: LordLeafolot_142 Start: 81507, Stop: 82262, Start Num: 3

Candidate Starts for LordLeafolot_142:

(1, 81279), (2, 81405), (Start: 3 @81507 has 157 MA's), (4, 81525), (6, 81609), (8, 81891), (9, 81927), (12, 82113),

Gene: Maby2021_138 Start: 80314, Stop: 81069, Start Num: 3

Candidate Starts for Maby2021_138:

(1, 80086), (2, 80212), (Start: 3 @80314 has 157 MA's), (4, 80332), (6, 80416), (8, 80698), (9, 80734), (12, 80920),

Gene: Mangeria_138 Start: 80384, Stop: 81139, Start Num: 3

Candidate Starts for Mangeria_138:

(1, 80156), (2, 80282), (Start: 3 @80384 has 157 MA's), (4, 80402), (6, 80486), (8, 80768), (9, 80804), (12, 80990),

Gene: Matsumoto_135 Start: 79175, Stop: 79930, Start Num: 3

Candidate Starts for Matsumoto_135:

(1, 78947), (2, 79073), (Start: 3 @79175 has 157 MA's), (4, 79193), (6, 79277), (8, 79559), (9, 79595), (12, 79781),

Gene: McGee_140 Start: 78929, Stop: 79684, Start Num: 3

Candidate Starts for McGee_140:

(1, 78701), (2, 78827), (Start: 3 @78929 has 157 MA's), (4, 78947), (6, 79031), (8, 79313), (9, 79349), (12, 79535),

Gene: McWolfish_136 Start: 80103, Stop: 80858, Start Num: 3

Candidate Starts for McWolfish_136:

(1, 79875), (2, 80001), (Start: 3 @80103 has 157 MA's), (4, 80121), (6, 80205), (8, 80487), (9, 80523), (12, 80709),

Gene: Megamind_137 Start: 79987, Stop: 80742, Start Num: 3

Candidate Starts for Megamind_137:

(1, 79759), (2, 79885), (Start: 3 @79987 has 157 MA's), (4, 80005), (6, 80089), (8, 80371), (9, 80407), (12, 80593),

Gene: Melpomini_132 Start: 77453, Stop: 78208, Start Num: 3

Candidate Starts for Melpomini_132:

(Start: 3 @77453 has 157 MA's), (4, 77471), (6, 77555), (8, 77837), (9, 77873), (12, 78059),

Gene: MikeLiesIn_139 Start: 80344, Stop: 81099, Start Num: 3

Candidate Starts for MikeLiesIn_139:

(1, 80116), (2, 80242), (Start: 3 @80344 has 157 MA's), (4, 80362), (6, 80446), (8, 80728), (9, 80764), (12, 80950),

Gene: Mikro_135 Start: 81557, Stop: 82312, Start Num: 3

Candidate Starts for Mikro_135:

(1, 81329), (2, 81455), (Start: 3 @81557 has 157 MA's), (4, 81575), (6, 81659), (8, 81941), (9, 81977), (12, 82163),

Gene: MoMoMixon_138 Start: 79820, Stop: 80575, Start Num: 3

Candidate Starts for MoMoMixon_138:

(1, 79592), (2, 79718), (Start: 3 @79820 has 157 MA's), (4, 79838), (6, 79922), (8, 80204), (9, 80240), (12, 80426),

Gene: Momo_138 Start: 79338, Stop: 80093, Start Num: 3

Candidate Starts for Momo_138:

(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758), (12, 79944),

Gene: Morizzled23_139 Start: 79693, Stop: 80448, Start Num: 3

Candidate Starts for Morizzled23_139:

(1, 79465), (2, 79591), (Start: 3 @79693 has 157 MA's), (4, 79711), (6, 79795), (8, 80077), (9, 80113), (12, 80299),

Gene: Naija_138 Start: 79338, Stop: 80093, Start Num: 3

Candidate Starts for Naija_138:

(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758), (12, 79944),

Gene: Napoleon13_134 Start: 77891, Stop: 78646, Start Num: 3

Candidate Starts for Napoleon13_134:

(Start: 3 @77891 has 157 MA's), (4, 77909), (6, 77993), (8, 78275), (9, 78311), (12, 78497),

Gene: Nappy_140 Start: 81254, Stop: 82009, Start Num: 3

Candidate Starts for Nappy_140:

(1, 81026), (2, 81152), (Start: 3 @81254 has 157 MA's), (4, 81272), (6, 81356), (8, 81638), (9, 81674), (12, 81860),

Gene: Naval22_143 Start: 81787, Stop: 82542, Start Num: 3

Candidate Starts for Naval22_143:

(1, 81559), (2, 81685), (Start: 3 @81787 has 157 MA's), (4, 81805), (6, 81889), (8, 82171), (9, 82207), (12, 82393),

Gene: NedWong_139 Start: 80321, Stop: 81076, Start Num: 3

Candidate Starts for NedWong_139:

(1, 80093), (2, 80219), (Start: 3 @80321 has 157 MA's), (4, 80339), (6, 80423), (8, 80705), (9, 80741), (12, 80927),

Gene: Ngannou_135 Start: 78320, Stop: 79075, Start Num: 3

Candidate Starts for Ngannou_135:

(1, 78092), (2, 78218), (Start: 3 @78320 has 157 MA's), (4, 78338), (6, 78422), (8, 78704), (9, 78740), (12, 78926),

Gene: Nidhogg_140 Start: 80544, Stop: 81299, Start Num: 3

Candidate Starts for Nidhogg_140:

(1, 80316), (2, 80442), (Start: 3 @80544 has 157 MA's), (4, 80562), (6, 80646), (8, 80928), (9, 80964), (12, 81150),

Gene: NoodleTree_145 Start: 80414, Stop: 81169, Start Num: 3

Candidate Starts for NoodleTree_145:

(1, 80186), (2, 80312), (Start: 3 @80414 has 157 MA's), (4, 80432), (6, 80516), (8, 80798), (9, 80834), (12, 81020),

Gene: Norm_139 Start: 81016, Stop: 81771, Start Num: 3

Candidate Starts for Norm_139:

(1, 80788), (2, 80914), (Start: 3 @81016 has 157 MA's), (4, 81034), (6, 81118), (8, 81400), (9, 81436), (12, 81622),

Gene: NuevoMundo_143 Start: 82596, Stop: 83351, Start Num: 3

Candidate Starts for NuevoMundo_143:

(1, 82368), (2, 82494), (Start: 3 @82596 has 157 MA's), (4, 82614), (6, 82698), (8, 82980), (9, 83016), (12, 83202),

Gene: ParkTD_139 Start: 80327, Stop: 81082, Start Num: 3

Candidate Starts for ParkTD_139:

(1, 80099), (2, 80225), (Start: 3 @80327 has 157 MA's), (4, 80345), (6, 80429), (8, 80711), (9, 80747), (12, 80933),

Gene: Patter_139 Start: 79355, Stop: 80110, Start Num: 3

Candidate Starts for Patter_139:

(1, 79127), (2, 79253), (Start: 3 @79355 has 157 MA's), (4, 79373), (6, 79457), (8, 79739), (9, 79775), (12, 79961),

Gene: Phlegm_142 Start: 79338, Stop: 80093, Start Num: 3

Candidate Starts for Phlegm_142:

(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758), (12, 79944),

Gene: Phox_135 Start: 80607, Stop: 81362, Start Num: 3

Candidate Starts for Phox_135:

(1, 80379), (2, 80505), (Start: 3 @80607 has 157 MA's), (4, 80625), (6, 80709), (8, 80991), (9, 81027), (12, 81213),

Gene: Phusco_138 Start: 79614, Stop: 80369, Start Num: 3

Candidate Starts for Phusco_138:

(1, 79386), (2, 79512), (Start: 3 @79614 has 157 MA's), (4, 79632), (6, 79716), (8, 79998), (9, 80034), (12, 80220),

Gene: Pier_142 Start: 82604, Stop: 83359, Start Num: 3

Candidate Starts for Pier_142:

(1, 82376), (2, 82502), (Start: 3 @82604 has 157 MA's), (4, 82622), (6, 82706), (8, 82988), (9, 83024), (12, 83210),

Gene: Pio_142 Start: 82216, Stop: 82971, Start Num: 3

Candidate Starts for Pio_142:

(1, 81988), (2, 82114), (Start: 3 @82216 has 157 MA's), (4, 82234), (6, 82318), (8, 82600), (9, 82636), (12, 82822),

Gene: Pivoine_138 Start: 79338, Stop: 80093, Start Num: 3

Candidate Starts for Pivoine_138:

(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758), (12, 79944),

Gene: Pleione_141 Start: 80494, Stop: 81249, Start Num: 3

Candidate Starts for Pleione_141:

(1, 80266), (2, 80392), (Start: 3 @80494 has 157 MA's), (4, 80512), (6, 80596), (8, 80878), (9, 80914), (12, 81100),

Gene: PurduePete_138 Start: 80741, Stop: 81496, Start Num: 3

Candidate Starts for PurduePete_138:

(1, 80513), (2, 80639), (Start: 3 @80741 has 157 MA's), (4, 80759), (6, 80843), (8, 81125), (9, 81161), (12, 81347),

Gene: QBert_132 Start: 79331, Stop: 80086, Start Num: 3

Candidate Starts for QBert_132:

(Start: 3 @79331 has 157 MA's), (4, 79349), (6, 79433), (8, 79715), (9, 79751), (12, 79937),

Gene: Quasimodo_140 Start: 80755, Stop: 81510, Start Num: 3

Candidate Starts for Quasimodo_140:

(Start: 3 @80755 has 157 MA's), (4, 80773), (6, 80857), (8, 81139), (9, 81175), (12, 81361),

Gene: Rabinovish_137 Start: 80939, Stop: 81694, Start Num: 3

Candidate Starts for Rabinovish_137:

(1, 80711), (2, 80837), (Start: 3 @80939 has 157 MA's), (4, 80957), (6, 81041), (8, 81323), (9, 81359), (12, 81545),

Gene: Rahel_137 Start: 79216, Stop: 79971, Start Num: 3

Candidate Starts for Rahel_137:

(1, 78988), (2, 79114), (Start: 3 @79216 has 157 MA's), (4, 79234), (6, 79318), (8, 79600), (9, 79636), (12, 79822),

Gene: Rizal_133 Start: 78364, Stop: 79119, Start Num: 3

Candidate Starts for Rizal_133:

(1, 78136), (2, 78262), (Start: 3 @78364 has 157 MA's), (4, 78382), (6, 78466), (8, 78748), (9, 78784), (12, 78970),

Gene: RoMag_133 Start: 79528, Stop: 80283, Start Num: 3

Candidate Starts for RoMag_133:

(1, 79300), (2, 79426), (Start: 3 @79528 has 157 MA's), (4, 79546), (6, 79630), (8, 79912), (9, 79948), (12, 80134),

Gene: Ronan_132 Start: 77477, Stop: 78232, Start Num: 3

Candidate Starts for Ronan_132:

(Start: 3 @77477 has 157 MA's), (4, 77495), (6, 77579), (8, 77861), (9, 77897), (12, 78083),

Gene: Roots515_137 Start: 80993, Stop: 81748, Start Num: 3

Candidate Starts for Roots515_137:

(1, 80765), (2, 80891), (Start: 3 @80993 has 157 MA's), (4, 81011), (6, 81095), (8, 81377), (9, 81413), (12, 81599),

Gene: Salacia_142 Start: 80655, Stop: 81410, Start Num: 3

Candidate Starts for Salacia_142:

(1, 80427), (2, 80553), (Start: 3 @80655 has 157 MA's), (4, 80673), (6, 80757), (8, 81039), (9, 81075), (12, 81261),

Gene: ScottMcG_134 Start: 79277, Stop: 80032, Start Num: 3

Candidate Starts for ScottMcG_134:

(Start: 3 @79277 has 157 MA's), (4, 79295), (6, 79379), (8, 79661), (9, 79697), (12, 79883),

Gene: Shaqnato_131 Start: 78321, Stop: 79076, Start Num: 3

Candidate Starts for Shaqnato_131:

(1, 78093), (2, 78219), (Start: 3 @78321 has 157 MA's), (4, 78339), (6, 78423), (8, 78705), (9, 78741), (12, 78927),

Gene: Shelob_140 Start: 81123, Stop: 81878, Start Num: 3

Candidate Starts for Shelob_140:

(1, 80895), (2, 81021), (Start: 3 @81123 has 157 MA's), (4, 81141), (6, 81225), (8, 81507), (9, 81543), (12, 81729),

Gene: ShiaLabeouf_137 Start: 79651, Stop: 80406, Start Num: 3

Candidate Starts for ShiaLabeouf_137:

(Start: 3 @79651 has 157 MA's), (4, 79669), (6, 79753), (8, 80035), (9, 80071), (12, 80257),

Gene: Shnickers_138 Start: 79615, Stop: 80370, Start Num: 3

Candidate Starts for Shnickers_138:

(Start: 3 @79615 has 157 MA's), (4, 79633), (6, 79717), (8, 79999), (9, 80035), (12, 80221),

Gene: Shrimp_138 Start: 80334, Stop: 81089, Start Num: 3

Candidate Starts for Shrimp_138:

(1, 80106), (2, 80232), (Start: 3 @80334 has 157 MA's), (4, 80352), (6, 80436), (8, 80718), (9, 80754), (12, 80940),

Gene: SilverDipper_140 Start: 79338, Stop: 80093, Start Num: 3

Candidate Starts for SilverDipper_140:

(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758), (12, 79944),

Gene: SmallFry_138 Start: 78840, Stop: 79595, Start Num: 3

Candidate Starts for SmallFry_138:

(Start: 3 @78840 has 157 MA's), (4, 78858), (6, 78942), (8, 79224), (9, 79260), (12, 79446),

Gene: Spec_134 Start: 79380, Stop: 80135, Start Num: 3

Candidate Starts for Spec_134:

(Start: 3 @79380 has 157 MA's), (4, 79398), (6, 79482), (8, 79764), (9, 79800), (12, 79986),

Gene: Specks_143 Start: 81505, Stop: 82260, Start Num: 3

Candidate Starts for Specks_143:

(2, 81403), (Start: 3 @81505 has 157 MA's), (4, 81523), (6, 81607), (8, 81889), (9, 81925), (12, 82111),

Gene: Sprinklers_134 Start: 78896, Stop: 79651, Start Num: 3

Candidate Starts for Sprinklers_134:

(1, 78668), (2, 78794), (Start: 3 @78896 has 157 MA's), (4, 78914), (6, 78998), (8, 79280), (9, 79316), (12, 79502),

Gene: Spud_137 Start: 80401, Stop: 81156, Start Num: 3

Candidate Starts for Spud_137:

(Start: 3 @80401 has 157 MA's), (4, 80419), (6, 80503), (8, 80785), (9, 80821), (12, 81007),

Gene: SrishMeg2525_137 Start: 80423, Stop: 81178, Start Num: 3

Candidate Starts for SrishMeg2525_137:

(1, 80195), (2, 80321), (Start: 3 @80423 has 157 MA's), (4, 80441), (6, 80525), (8, 80807), (9, 80843), (12, 81029),

Gene: StephanieG_136 Start: 81233, Stop: 81988, Start Num: 3

Candidate Starts for StephanieG_136:

(1, 81005), (2, 81131), (Start: 3 @81233 has 157 MA's), (4, 81251), (6, 81335), (8, 81617), (9, 81653), (12, 81839),

Gene: Stubby_131 Start: 78863, Stop: 79618, Start Num: 3

Candidate Starts for Stubby_131:

(1, 78635), (2, 78761), (Start: 3 @78863 has 157 MA's), (4, 78881), (6, 78965), (8, 79247), (9, 79283), (12, 79469),

Gene: StubbySaigey_142 Start: 79498, Stop: 80253, Start Num: 3

Candidate Starts for StubbySaigey_142:

(1, 79270), (2, 79396), (Start: 3 @79498 has 157 MA's), (4, 79516), (6, 79600), (8, 79882), (9, 79918), (12, 80104),

Gene: Teardrop_137 Start: 78829, Stop: 79584, Start Num: 3

Candidate Starts for Teardrop_137:

(2, 78727), (Start: 3 @78829 has 157 MA's), (4, 78847), (6, 78931), (8, 79213), (9, 79249), (12, 79435),

Gene: TinyTim_138 Start: 80081, Stop: 80836, Start Num: 3

Candidate Starts for TinyTim_138:

(1, 79853), (2, 79979), (Start: 3 @80081 has 157 MA's), (4, 80099), (6, 80183), (8, 80465), (9, 80501), (12, 80687),

Gene: Tonenili_151 Start: 82838, Stop: 83593, Start Num: 3

Candidate Starts for Tonenili_151:

(Start: 3 @82838 has 157 MA's), (5, 82910), (6, 82940), (7, 83141), (10, 83300), (11, 83321), (13, 83588),

Gene: Tortoise16_135 Start: 79440, Stop: 80195, Start Num: 3

Candidate Starts for Tortoise16_135:

(1, 79212), (2, 79338), (Start: 3 @79440 has 157 MA's), (4, 79458), (6, 79542), (8, 79824), (9, 79860), (12, 80046),

Gene: Trinitium_136 Start: 79264, Stop: 80019, Start Num: 3

Candidate Starts for Trinitium_136:

(Start: 3 @79264 has 157 MA's), (4, 79282), (6, 79366), (8, 79648), (9, 79684), (12, 79870),

Gene: Turret_134 Start: 78709, Stop: 79464, Start Num: 3

Candidate Starts for Turret_134:

(1, 78481), (2, 78607), (Start: 3 @78709 has 157 MA's), (4, 78727), (6, 78811), (8, 79093), (9, 79129), (12, 79315),

Gene: Tyke_138 Start: 80736, Stop: 81491, Start Num: 3

Candidate Starts for Tyke_138:

(1, 80508), (2, 80634), (Start: 3 @80736 has 157 MA's), (4, 80754), (6, 80838), (8, 81120), (9, 81156), (12, 81342),

Gene: ValleyTerrace_139 Start: 79338, Stop: 80093, Start Num: 3

Candidate Starts for ValleyTerrace_139:

(1, 79110), (2, 79236), (Start: 3 @79338 has 157 MA's), (4, 79356), (6, 79440), (8, 79722), (9, 79758), (12, 79944),

Gene: Wally_137 Start: 78859, Stop: 79614, Start Num: 3

Candidate Starts for Wally_137:

(1, 78631), (2, 78757), (Start: 3 @78859 has 157 MA's), (4, 78877), (6, 78961), (8, 79243), (9, 79279), (12, 79465),

Gene: Willis_139 Start: 80226, Stop: 80981, Start Num: 3

Candidate Starts for Willis_139:

(1, 79998), (2, 80124), (Start: 3 @80226 has 157 MA's), (4, 80244), (6, 80328), (8, 80610), (9, 80646), (12, 80832),

Gene: Yassified_135 Start: 78936, Stop: 79691, Start Num: 3

Candidate Starts for Yassified_135:

(1, 78708), (2, 78834), (Start: 3 @78936 has 157 MA's), (4, 78954), (6, 79038), (8, 79320), (9, 79356), (12, 79542),

Gene: YemiJoy2021_139 Start: 80318, Stop: 81073, Start Num: 3

Candidate Starts for YemiJoy2021_139:

(1, 80090), (2, 80216), (Start: 3 @80318 has 157 MA's), (4, 80336), (6, 80420), (8, 80702), (9, 80738), (12, 80924),

Gene: YoungMoneyMata_140 Start: 79964, Stop: 80719, Start Num: 3

Candidate Starts for YoungMoneyMata_140:

(Start: 3 @79964 has 157 MA's), (4, 79982), (6, 80066), (8, 80348), (9, 80384), (12, 80570),

Gene: Yucca_137 Start: 80000, Stop: 80755, Start Num: 3

Candidate Starts for Yucca_137:

(1, 79772), (2, 79898), (Start: 3 @80000 has 157 MA's), (4, 80018), (6, 80102), (8, 80384), (9, 80420), (12, 80606),

Gene: Zalkecks_139 Start: 80001, Stop: 80756, Start Num: 3

Candidate Starts for Zalkecks_139:

(1, 79773), (2, 79899), (Start: 3 @80001 has 157 MA's), (4, 80019), (6, 80103), (8, 80385), (9, 80421), (12, 80607),

Gene: Zeenon_139 Start: 80086, Stop: 80841, Start Num: 3

Candidate Starts for Zeenon_139:

(1, 79858), (2, 79984), (Start: 3 @80086 has 157 MA's), (4, 80104), (6, 80188), (8, 80470), (9, 80506), (12, 80692),

Gene: ZygoTaiga_136 Start: 81246, Stop: 82001, Start Num: 3

Candidate Starts for ZygoTaiga_136:

(1, 81018), (2, 81144), (Start: 3 @81246 has 157 MA's), (4, 81264), (6, 81348), (8, 81630), (9, 81666), (12, 81852),