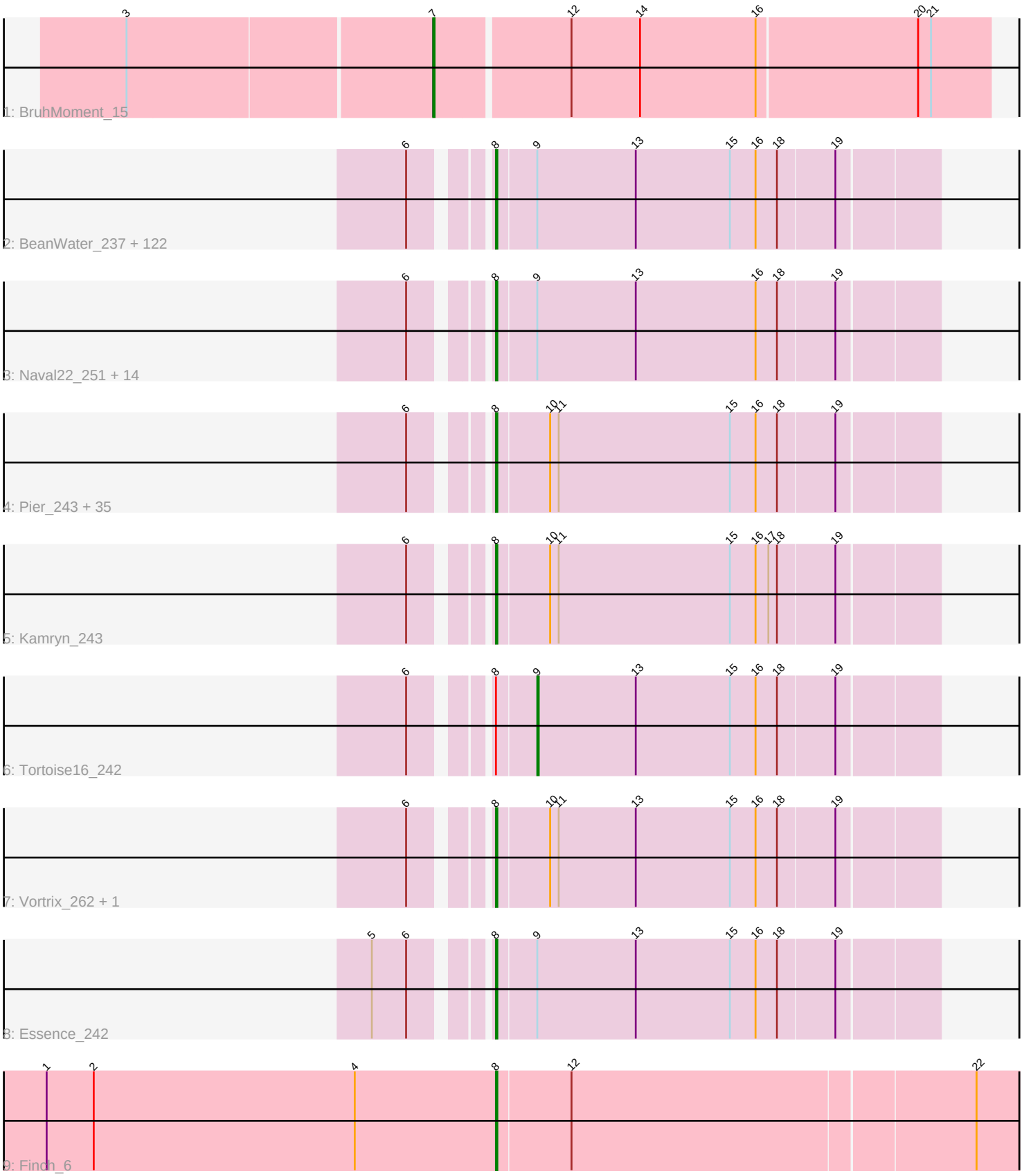
Pham 345419


3
7
12
14
16
20
21
1: BruhMoment_15
6
8
9
13
15
16
18
19
2: BeanWater_237 + 122
6
8
9
13
16
18
19
3: Naval22_251 + 14
6
8
10
11
15
16
18
19
4: Pier_243 + 35
6
8
10
11
15
16
17
18
19
5: Kamryn_243
6
8
9
13
15
16
18
19
6: Tortoise16_242
6
8
10
11
13
15
16
18
19
7: Vortrix_262 + 1
5
6
8
9
13
15
16
18
19
8: Essence_242
1
2
4
8
12
22
9: Finch_6

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 345419 Report

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

Pham number 345419 has 181 members, 22 are drafts.

Phages represented in each track:
• Track 1 : BruhMoment_15
• Track 2 : BeanWater_237, Gamgam_246, Bxz1_230, Wally_242, Matsumoto_242, SoilZilla_237, Duckfeet_238, Pivoine_245, JulietS_233, Teardrop_242, DTDevon_245, BigCity_252, Lukilu_233, Asterius_244, Grasshills_251, Ghost_244, JPickles_241, LRRHood_236, SiwenD96_245, QBert_236, Phlegm_249, RoMag_239, Naija_245, Jessibeth14_244, IkeLoa_238, Kboogie_248, Atlantean_244, Domi_238, Puhon_245, Drazdys_241, EasyJones_245, Adlitam_244, Blackbrain_242, Darko_243, Dietrick_233, Phusco_243, Momo_246, Jaygup_241, Ablatia_243, Quasimodo_247, ChaylaJr_243, Shnickers_243, Chargie21_241, Khaleesi_243, Basquiat_241, Ading_246, Amataga_245, Audrick_247, ArcherS7_245, Catera_233, Bezza_238, SVoro_239, EggyFarm_252, Sauce_241, Rocha_240, Ngannou_239, Turret_235, Belieber_236, ShiaLabeouf_242, Guwapp_240, EmmaElysia_249, Melpomini_239, Bowman_245, Sprinklers_242, Cali_234, McGee_245, Maguvora_245, SmallFry_245, GoldenSnow_243, Jedediah_246, BananaFence_241, StubbySaigey_250, Trinitium_240, Rahel_246, LookingGlass_242, ChickenPhender_240, CharlieB_239, Specks_248, Labradorite_246, Shaqnato_235, Derek_240, Astraea_239, Demodog_250, Gabriel_247, InigoMontoya_248, Pio_251, Fixie_236, Fludd_244, Cactojaque_238, Chomp_243, JustHall_238, PurduePete_244, BadAgartude_238, ErnieJ_237, BackyardAgain_239, ValleyTerrace_245, Dessert_245, Bangla1971_245, McWolfish_241, CindyLou_245, Latch_244, StephanieG_238, GlutenPhree_245, Littleton_248, Concombre_249, Janiyra_247, NoodleTree_240, Burrough_245, Morizzled23_241, LifeSavor_245, BobaPhatt_237, SilverDipper_249, Napoleon13_241, Spud_236, Blackdragon_239, EmToTheThree_244, Babyland_247, Jemmno_244, Rizal_233, Primadonna_238, Substance289_240, Pupusa_247, Fongie_244
• Track 3 : Naval22_251, TinyTim_242, Maby2021_244, Pleione_248, Delylah_246, Erdmann_245, Shrimp_246, Bread_240, Gizmo_249, MoMoMixon_240, Iota_241, Yucca_244, JigglyPuff_250, Caravan_234, FoxtrotP1_242
• Track 4 : Pier_243, Ewok_243, Issimir_237, ET08_230, Daffodil_250, DrPhinkDaddy_241, Shelob_245, Loanshark_241, OrediggerDelux_245, NedWong_243, Capablanca_249, Megamind_241, Roots515_247, Bipolarisk_242, MikeLiesIn_245, Yassified_240, ParkTD_243, Jezreel_241, Nidhogg_245, Ronan_240, Norm_244, Cleatunium_235, Bonray_246, Zeenon_245, FudgeTart_239, Delilah_242, Salacia_245, ZygoTaiga_240, YemiJoy2021_245, Lee7_248, Zalkecks_243, Ava3_241, SrishMeg2525_241, Izajani_240, Phox_245, Willis_245
• Track 5 : Kamryn_243

• Track 6 : Tortoise16_242
• Track 7 : Vortrix_262, Tonenili_266
• Track 8 : Essence_242
• Track 9 : Finch_6

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

The start number called the most often in the published annotations is 8, it was called in 157 of the 159 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_243, Ading_246, Adlitam_244, Amataga_245, ArcherS7_245, Asterius_244, Astraea_239, Atlantean_244, Audrick_247, Ava3_241, Babyland_247, BackyardAgain_239, BadAgartude_238, BananaFence_241, Bangla1971_245, Basquiat_241, BeanWater_237, Belieber_236, Bezza_238, BigCity_252, Bipolarisk_242, Blackbrain_242, Blackdragon_239, BobaPhatt_237, Bonray_246, Bowman_245, Bread_240, Burrough_245, Bxz1_230, Cactojaque_238, Cali_234, Capablanca_249, Caravan_234, Catera_233, Chargie21_241, CharlieB_239, ChaylaJr_243, ChickenPhender_240, Chomp_243, CindyLou_245, Cleatunium_235, Concombre_249, DTDevon_245, Daffodil_250, Darko_243, Delilah_242, Delylah_246, Demodog_250, Derek_240, Dessert_245, Dietrick_233, Domi_238, DrPhinkDaddy_241, Drazdys_241, Duckfeet_238, ET08_230, EasyJones_245, EggyFarm_252, EmToTheThree_244, EmmaElysia_249, Erdmann_245, ErnieJ_237, Essence_242, Ewok_243, Finch_6, Fixie_236, Fludd_244, Fongie_244, FoxtrotP1_242, FudgeTart_239, Gabriel_247, Gamgam_246, Ghost_244, Gizmo_249, GlutenPhree_245, GoldenSnow_243, Grasshills_251, Guwapp_240, IkeLoa_238, InigoMontoya_248, Iota_241, Issimir_237, Izajani_240, JPickles_241, Janiyra_247, Jaygup_241, Jedediah_246, Jemmno_244, Jessibeth14_244, Jezreel_241, JigglyPuff_250, JulietS_233, JustHall_238, Kamryn_243, Kboogie_248, Khaleesi_243, LRRHood_236, Labradorite_246, Latch_244, Lee7_248, LifeSavor_245, Littleton_248, Loanshark_241, LookingGlass_242, Lukilu_233, Maby2021_244, Maguvora_245, Matsumoto_242, McGee_245, McWolfish_241, Megamind_241, Melpomini_239, MikeLiesIn_245, MoMoMixon_240, Momo_246, Morizzled23_241, Naija_245, Napoleon13_241, Naval22_251, NedWong_243, Ngannou_239, Nidhogg_245, NoodleTree_240, Norm_244, OrediggerDelux_245, ParkTD_243, Phlegm_249, Phox_245, Phusco_243, Pier_243, Pio_251, Pivoine_245, Pleione_248, Primadonna_238, Puhon_245, Pupusa_247, PurduePete_244, QBert_236, Quasimodo_247, Rahel_246, Rizal_233, RoMag_239, Rocha_240, Ronan_240, Roots515_247, SVoro_239, Salacia_245, Sauce_241, Shaqnato_235, Shelob_245, ShiaLabeouf_242, Shnickers_243, Shrimp_246, SilverDipper_249, SiwenD96_245, SmallFry_245, SoilZilla_237, Specks_248, Sprinklers_242, Spud_236, SrishMeg2525_241, StephanieG_238, StubbySaigey_250, Substance289_240, Teardrop_242, TinyTim_242, Tonenili_266, Trinitium_240, Turret_235, ValleyTerrace_245, Vortrix_262, Wally_242, Willis_245, Yassified_240, YemiJoy2021_245, Yucca_244, Zalkecks_243, Zeenon_245, ZygoTaiga_240,

Genes that have the "Most Annotated" start but do not call it:
• Tortoise16_242,

Genes that do not have the "Most Annotated" start:
• BruhMoment_15,

Summary by start number:

Start 7:
• Found in 1 of 181 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 159
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BruhMoment_15 (AP3),

Start 8:
• Found in 180 of 181 (99.4%) of genes in pham
• Manual Annotations of this start: 157 of 159
• Called 99.4% of time when present
• Phage (with cluster) where this start called: Ablatia_243 (C1), Ading_246 (C1), Adlitam_244 (C1), Amataga_245 (C1), ArcherS7_245 (C1), Asterius_244 (C1), Astraea_239 (C1), Atlantean_244 (C1), Audrick_247 (C1), Ava3_241 (C1), Babyland_247 (C1), BackyardAgain_239 (C1), BadAgartude_238 (C1), BananaFence_241 (C1), Bangla1971_245 (C1), Basquiat_241 (C1), BeanWater_237 (C1), Belieber_236 (C1), Bezza_238 (C1), BigCity_252 (C1), Bipolarisk_242 (C1), Blackbrain_242 (C1), Blackdragon_239 (C1), BobaPhatt_237 (C1), Bonray_246 (C1), Bowman_245 (C1), Bread_240 (C1), Burrough_245 (C1), Bxz1_230 (C1), Cactojaque_238 (C1), Cali_234 (C1), Capablanca_249 (C1), Caravan_234 (C1), Catera_233 (C1), Chargie21_241 (C1), CharlieB_239 (C1), ChaylaJr_243 (C1), ChickenPhender_240 (C1), Chomp_243 (C1), CindyLou_245 (C1), Cleatunium_235 (C1), Concombre_249 (C1), DTDevon_245 (C1), Daffodil_250 (C1), Darko_243 (C1), Delilah_242 (C1), Delylah_246 (C1), Demodog_250 (C1), Derek_240 (C1), Dessert_245 (C1), Dietrick_233 (C1), Domi_238 (C1), DrPhinkDaddy_241 (C1), Drazdys_241 (C1), Duckfeet_238 (C1), ET08_230 (C1), EasyJones_245 (C1), EggyFarm_252 (C1), EmToTheThree_244 (C1), EmmaElysia_249 (C1), Erdmann_245 (C1), ErnieJ_237 (C1), Essence_242 (C1), Ewok_243 (C1), Finch_6 (singleton), Fixie_236 (C1), Fludd_244 (C1), Fongie_244 (C1), FoxtrotP1_242 (C1), FudgeTart_239 (C1), Gabriel_247 (C1), Gamgam_246 (C1), Ghost_244 (C1), Gizmo_249 (C1), GlutenPhree_245 (C1), GoldenSnow_243 (C1), Grasshills_251 (C1), Guwapp_240 (C1), IkeLoa_238 (C1), InigoMontoya_248 (C1), Iota_241 (C1), Issimir_237 (C1), Izajani_240 (C1), JPickles_241 (C1), Janiyra_247 (C1), Jaygup_241 (C1), Jedediah_246 (C1), Jemmno_244 (C1), Jessibeth14_244 (C1), Jezreel_241 (C1), JigglyPuff_250 (C1), JulietS_233 (C1), JustHall_238 (C1), Kamryn_243 (C1), Kboogie_248 (C1), Khaleesi_243 (C1), LRRHood_236 (C1), Labradorite_246 (C1), Latch_244 (C1), Lee7_248 (C1), LifeSavor_245 (C1), Littleton_248 (C1), Loanshark_241 (C1), LookingGlass_242 (C1), Lukilu_233 (C1), Maby2021_244 (C1), Maguvora_245 (C1), Matsumoto_242 (C1), McGee_245 (C1), McWolfish_241 (C1), Megamind_241 (C1), Melpomini_239 (C1), MikeLiesIn_245 (C1), MoMoMixon_240 (C1), Momo_246 (C1), Morizzled23_241 (C1), Naija_245 (C1), Napoleon13_241 (C1), Naval22_251 (C1), NedWong_243 (C1), Ngannou_239 (C1), Nidhogg_245 (C1), NoodleTree_240 (C1), Norm_244 (C1), OrediggerDelux_245 (C1), ParkTD_243 (C1), Phlegm_249 (C1), Phox_245 (C1), Phusco_243 (C1), Pier_243 (C1), Pio_251 (C1), Pivoine_245 (C1), Pleione_248 (C1), Primadonna_238 (C1), Puhon_245 (C1), Pupusa_247 (C1), PurduePete_244 (C1), QBert_236 (C1), Quasimodo_247 (C1), Rahel_246 (C1), Rizal_233 (C1), RoMag_239 (C1), Rocha_240 (C1), Ronan_240 (C1), Roots515_247 (C1), SVoro_239 (C1), Salacia_245 (C1), Sauce_241 (C1), Shaqnato_235 (C1), Shelob_245 (C1),

ShiaLabeouf_242 (C1), Shnickers_243 (C1), Shrimp_246 (C1), SilverDipper_249 (C1), SiwenD96_245 (C1), SmallFry_245 (C1), SoilZilla_237 (C1), Specks_248 (C1), Sprinklers_242 (C1), Spud_236 (C1), SrishMeg2525_241 (C1), StephanieG_238 (C1), StubbySaigey_250 (C1), Substance289_240 (C1), Teardrop_242 (C1), TinyTim_242 (C1), Tonenili_266 (C1), Trinitium_240 (C1), Turret_235 (C1), ValleyTerrace_245 (C1), Vortrix_262 (C1), Wally_242 (C1), Willis_245 (C1), Yassified_240 (C1), YemiJoy2021_245 (C1), Yucca_244 (C1), Zalkecks_243 (C1), Zeenon_245 (C1), ZygoTaiga_240 (C1),

Start 9:
• Found in 140 of 181 (77.3%) of genes in pham
• Manual Annotations of this start: 1 of 159
• Called 0.7% of time when present
• Phage (with cluster) where this start called: Tortoise16_242 (C1),

Summary by clusters:

There are 3 clusters represented in this pham: AP3, C1, singleton,

Info for manual annotations of cluster AP3:
•Start number 7 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster C1:
•Start number 8 was manually annotated 156 times for cluster C1.
•Start number 9 was manually annotated 1 time for cluster C1.

Gene Information:

Gene: Ablatia_243 Start: 134421, Stop: 134723, Start Num: 8
Candidate Starts for Ablatia_243:
(6, 134379), (Start: 8 @134421 has 157 MA's), (Start: 9 @134448 has 1 MA's), (13, 134517), (15, 134583), (16, 134601), (18, 134616), (19, 134655),

Gene: Ading_246 Start: 136854, Stop: 137156, Start Num: 8
Candidate Starts for Ading_246:
(6, 136812), (Start: 8 @136854 has 157 MA's), (Start: 9 @136881 has 1 MA's), (13, 136950), (15, 137016), (16, 137034), (18, 137049), (19, 137088),

Gene: Adlitam_244 Start: 135458, Stop: 135760, Start Num: 8
Candidate Starts for Adlitam_244:
(6, 135416), (Start: 8 @135458 has 157 MA's), (Start: 9 @135485 has 1 MA's), (13, 135554), (15, 135620), (16, 135638), (18, 135653), (19, 135692),

Gene: Amataga_245 Start: 134457, Stop: 134759, Start Num: 8
Candidate Starts for Amataga_245:
(6, 134415), (Start: 8 @134457 has 157 MA's), (Start: 9 @134484 has 1 MA's), (13, 134553), (15, 134619), (16, 134637), (18, 134652), (19, 134691),

Gene: ArcherS7_245 Start: 136202, Stop: 136504, Start Num: 8
Candidate Starts for ArcherS7_245:

(6, 136160), (Start: 8 @136202 has 157 MA's), (Start: 9 @136229 has 1 MA's), (13, 136298), (15, 136364), (16, 136382), (18, 136397), (19, 136436),

Gene: Asterius_244 Start: 134866, Stop: 135168, Start Num: 8
Candidate Starts for Asterius_244:
(6, 134824), (Start: 8 @134866 has 157 MA's), (Start: 9 @134893 has 1 MA's), (13, 134962), (15, 135028), (16, 135046), (18, 135061), (19, 135100),

Gene: Astraea_239 Start: 134061, Stop: 134363, Start Num: 8
Candidate Starts for Astraea_239:
(6, 134019), (Start: 8 @134061 has 157 MA's), (Start: 9 @134088 has 1 MA's), (13, 134157), (15, 134223), (16, 134241), (18, 134256), (19, 134295),

Gene: Atlantean_244 Start: 134457, Stop: 134759, Start Num: 8
Candidate Starts for Atlantean_244:
(6, 134415), (Start: 8 @134457 has 157 MA's), (Start: 9 @134484 has 1 MA's), (13, 134553), (15, 134619), (16, 134637), (18, 134652), (19, 134691),

Gene: Audrick_247 Start: 134347, Stop: 134649, Start Num: 8
Candidate Starts for Audrick_247:
(6, 134305), (Start: 8 @134347 has 157 MA's), (Start: 9 @134374 has 1 MA's), (13, 134443), (15, 134509), (16, 134527), (18, 134542), (19, 134581),

Gene: Ava3_241 Start: 134917, Stop: 135219, Start Num: 8
Candidate Starts for Ava3_241:
(6, 134875), (Start: 8 @134917 has 157 MA's), (10, 134953), (11, 134959), (15, 135079), (16, 135097), (18, 135112), (19, 135151),

Gene: Babyland_247 Start: 135234, Stop: 135536, Start Num: 8
Candidate Starts for Babyland_247:
(6, 135192), (Start: 8 @135234 has 157 MA's), (Start: 9 @135261 has 1 MA's), (13, 135330), (15, 135396), (16, 135414), (18, 135429), (19, 135468),

Gene: BackyardAgain_239 Start: 132607, Stop: 132909, Start Num: 8
Candidate Starts for BackyardAgain_239:
(6, 132565), (Start: 8 @132607 has 157 MA's), (Start: 9 @132634 has 1 MA's), (13, 132703), (15, 132769), (16, 132787), (18, 132802), (19, 132841),

Gene: BadAgartude_238 Start: 134559, Stop: 134861, Start Num: 8
Candidate Starts for BadAgartude_238:
(6, 134517), (Start: 8 @134559 has 157 MA's), (Start: 9 @134586 has 1 MA's), (13, 134655), (15, 134721), (16, 134739), (18, 134754), (19, 134793),

Gene: BananaFence_241 Start: 134690, Stop: 134992, Start Num: 8
Candidate Starts for BananaFence_241:
(6, 134648), (Start: 8 @134690 has 157 MA's), (Start: 9 @134717 has 1 MA's), (13, 134786), (15, 134852), (16, 134870), (18, 134885), (19, 134924),

Gene: Bangla1971_245 Start: 135166, Stop: 135468, Start Num: 8
Candidate Starts for Bangla1971_245:
(6, 135124), (Start: 8 @135166 has 157 MA's), (Start: 9 @135193 has 1 MA's), (13, 135262), (15, 135328), (16, 135346), (18, 135361), (19, 135400),

Gene: Basquiat_241 Start: 132976, Stop: 133278, Start Num: 8
Candidate Starts for Basquiat_241:
(6, 132934), (Start: 8 @132976 has 157 MA's), (Start: 9 @133003 has 1 MA's), (13, 133072), (15, 133138), (16, 133156), (18, 133171), (19, 133210),

Gene: BeanWater_237 Start: 134303, Stop: 134605, Start Num: 8
Candidate Starts for BeanWater_237:
(6, 134261), (Start: 8 @134303 has 157 MA's), (Start: 9 @134330 has 1 MA's), (13, 134399), (15, 134465), (16, 134483), (18, 134498), (19, 134537),

Gene: Belieber_236 Start: 133103, Stop: 133405, Start Num: 8
Candidate Starts for Belieber_236:
(6, 133061), (Start: 8 @133103 has 157 MA's), (Start: 9 @133130 has 1 MA's), (13, 133199), (15, 133265), (16, 133283), (18, 133298), (19, 133337),

Gene: Bezza_238 Start: 134002, Stop: 134304, Start Num: 8
Candidate Starts for Bezza_238:
(6, 133960), (Start: 8 @134002 has 157 MA's), (Start: 9 @134029 has 1 MA's), (13, 134098), (15, 134164), (16, 134182), (18, 134197), (19, 134236),

Gene: BigCity_252 Start: 137063, Stop: 137365, Start Num: 8
Candidate Starts for BigCity_252:
(6, 137021), (Start: 8 @137063 has 157 MA's), (Start: 9 @137090 has 1 MA's), (13, 137159), (15, 137225), (16, 137243), (18, 137258), (19, 137297),

Gene: Bipolarisk_242 Start: 135185, Stop: 135487, Start Num: 8
Candidate Starts for Bipolarisk_242:
(6, 135143), (Start: 8 @135185 has 157 MA's), (10, 135221), (11, 135227), (15, 135347), (16, 135365), (18, 135380), (19, 135419),

Gene: Blackbrain_242 Start: 134753, Stop: 135055, Start Num: 8
Candidate Starts for Blackbrain_242:
(6, 134711), (Start: 8 @134753 has 157 MA's), (Start: 9 @134780 has 1 MA's), (13, 134849), (15, 134915), (16, 134933), (18, 134948), (19, 134987),

Gene: Blackdragon_239 Start: 134790, Stop: 135092, Start Num: 8
Candidate Starts for Blackdragon_239:
(6, 134748), (Start: 8 @134790 has 157 MA's), (Start: 9 @134817 has 1 MA's), (13, 134886), (15, 134952), (16, 134970), (18, 134985), (19, 135024),

Gene: BobaPhatt_237 Start: 133871, Stop: 134173, Start Num: 8
Candidate Starts for BobaPhatt_237:
(6, 133829), (Start: 8 @133871 has 157 MA's), (Start: 9 @133898 has 1 MA's), (13, 133967), (15, 134033), (16, 134051), (18, 134066), (19, 134105),

Gene: Bonray_246 Start: 136553, Stop: 136855, Start Num: 8
Candidate Starts for Bonray_246:
(6, 136511), (Start: 8 @136553 has 157 MA's), (10, 136589), (11, 136595), (15, 136715), (16, 136733), (18, 136748), (19, 136787),

Gene: Bowman_245 Start: 135668, Stop: 135970, Start Num: 8
Candidate Starts for Bowman_245:

(6, 135626), (Start: 8 @135668 has 157 MA's), (Start: 9 @135695 has 1 MA's), (13, 135764), (15, 135830), (16, 135848), (18, 135863), (19, 135902),

Gene: Bread_240 Start: 134560, Stop: 134862, Start Num: 8
Candidate Starts for Bread_240:
(6, 134518), (Start: 8 @134560 has 157 MA's), (Start: 9 @134587 has 1 MA's), (13, 134656), (16, 134740), (18, 134755), (19, 134794),

Gene: BruhMoment_15 Start: 6205, Stop: 6585, Start Num: 7
Candidate Starts for BruhMoment_15:
(3, 5998), (Start: 7 @6205 has 1 MA's), (12, 6295), (14, 6343), (16, 6424), (20, 6535), (21, 6544),

Gene: Burrough_245 Start: 136330, Stop: 136632, Start Num: 8
Candidate Starts for Burrough_245:
(6, 136288), (Start: 8 @136330 has 157 MA's), (Start: 9 @136357 has 1 MA's), (13, 136426), (15, 136492), (16, 136510), (18, 136525), (19, 136564),

Gene: Bxz1_230 Start: 136535, Stop: 136837, Start Num: 8
Candidate Starts for Bxz1_230:
(6, 136493), (Start: 8 @136535 has 157 MA's), (Start: 9 @136562 has 1 MA's), (13, 136631), (15, 136697), (16, 136715), (18, 136730), (19, 136769),

Gene: Cactojaque_238 Start: 133699, Stop: 134001, Start Num: 8
Candidate Starts for Cactojaque_238:
(6, 133657), (Start: 8 @133699 has 157 MA's), (Start: 9 @133726 has 1 MA's), (13, 133795), (15, 133861), (16, 133879), (18, 133894), (19, 133933),

Gene: Cali_234 Start: 134928, Stop: 135230, Start Num: 8
Candidate Starts for Cali_234:
(6, 134886), (Start: 8 @134928 has 157 MA's), (Start: 9 @134955 has 1 MA's), (13, 135024), (15, 135090), (16, 135108), (18, 135123), (19, 135162),

Gene: Capablanca_249 Start: 137181, Stop: 137483, Start Num: 8
Candidate Starts for Capablanca_249:
(6, 137139), (Start: 8 @137181 has 157 MA's), (10, 137217), (11, 137223), (15, 137343), (16, 137361), (18, 137376), (19, 137415),

Gene: Caravan_234 Start: 135268, Stop: 135570, Start Num: 8
Candidate Starts for Caravan_234:
(6, 135226), (Start: 8 @135268 has 157 MA's), (Start: 9 @135295 has 1 MA's), (13, 135364), (16, 135448), (18, 135463), (19, 135502),

Gene: Catera_233 Start: 133670, Stop: 133972, Start Num: 8
Candidate Starts for Catera_233:
(6, 133628), (Start: 8 @133670 has 157 MA's), (Start: 9 @133697 has 1 MA's), (13, 133766), (15, 133832), (16, 133850), (18, 133865), (19, 133904),

Gene: Chargie21_241 Start: 132976, Stop: 133278, Start Num: 8
Candidate Starts for Chargie21_241:
(6, 132934), (Start: 8 @132976 has 157 MA's), (Start: 9 @133003 has 1 MA's), (13, 133072), (15, 133138), (16, 133156), (18, 133171), (19, 133210),

Gene: CharlieB_239 Start: 134694, Stop: 134996, Start Num: 8

Candidate Starts for CharlieB_239:
(6, 134652), (Start: 8 @134694 has 157 MA's), (Start: 9 @134721 has 1 MA's), (13, 134790), (15, 134856), (16, 134874), (18, 134889), (19, 134928),

Gene: ChaylaJr_243 Start: 134367, Stop: 134669, Start Num: 8
Candidate Starts for ChaylaJr_243:
(6, 134325), (Start: 8 @134367 has 157 MA's), (Start: 9 @134394 has 1 MA's), (13, 134463), (15, 134529), (16, 134547), (18, 134562), (19, 134601),

Gene: ChickenPhender_240 Start: 133123, Stop: 133425, Start Num: 8
Candidate Starts for ChickenPhender_240:
(6, 133081), (Start: 8 @133123 has 157 MA's), (Start: 9 @133150 has 1 MA's), (13, 133219), (15, 133285), (16, 133303), (18, 133318), (19, 133357),

Gene: Chomp_243 Start: 136559, Stop: 136861, Start Num: 8
Candidate Starts for Chomp_243:
(6, 136517), (Start: 8 @136559 has 157 MA's), (Start: 9 @136586 has 1 MA's), (13, 136655), (15, 136721), (16, 136739), (18, 136754), (19, 136793),

Gene: CindyLou_245 Start: 136819, Stop: 137121, Start Num: 8
Candidate Starts for CindyLou_245:
(6, 136777), (Start: 8 @136819 has 157 MA's), (Start: 9 @136846 has 1 MA's), (13, 136915), (15, 136981), (16, 136999), (18, 137014), (19, 137053),

Gene: Cleatunium_235 Start: 134380, Stop: 134682, Start Num: 8
Candidate Starts for Cleatunium_235:
(6, 134338), (Start: 8 @134380 has 157 MA's), (10, 134416), (11, 134422), (15, 134542), (16, 134560), (18, 134575), (19, 134614),

Gene: Concombre_249 Start: 136715, Stop: 137017, Start Num: 8
Candidate Starts for Concombre_249:
(6, 136673), (Start: 8 @136715 has 157 MA's), (Start: 9 @136742 has 1 MA's), (13, 136811), (15, 136877), (16, 136895), (18, 136910), (19, 136949),

Gene: DTDevon_245 Start: 137198, Stop: 137500, Start Num: 8
Candidate Starts for DTDevon_245:
(6, 137156), (Start: 8 @137198 has 157 MA's), (Start: 9 @137225 has 1 MA's), (13, 137294), (15, 137360), (16, 137378), (18, 137393), (19, 137432),

Gene: Daffodil_250 Start: 135485, Stop: 135787, Start Num: 8
Candidate Starts for Daffodil_250:
(6, 135443), (Start: 8 @135485 has 157 MA's), (10, 135521), (11, 135527), (15, 135647), (16, 135665), (18, 135680), (19, 135719),

Gene: Darko_243 Start: 134694, Stop: 134996, Start Num: 8
Candidate Starts for Darko_243:
(6, 134652), (Start: 8 @134694 has 157 MA's), (Start: 9 @134721 has 1 MA's), (13, 134790), (15, 134856), (16, 134874), (18, 134889), (19, 134928),

Gene: Delilah_242 Start: 135578, Stop: 135880, Start Num: 8
Candidate Starts for Delilah_242:
(6, 135536), (Start: 8 @135578 has 157 MA's), (10, 135614), (11, 135620), (15, 135740), (16, 135758), (18, 135773), (19, 135812),

Gene: Delylah_246 Start: 135892, Stop: 136194, Start Num: 8
Candidate Starts for Delylah_246:
(6, 135850), (Start: 8 @135892 has 157 MA's), (Start: 9 @135919 has 1 MA's), (13, 135988), (16, 136072), (18, 136087), (19, 136126),

Gene: Demodog_250 Start: 136725, Stop: 137027, Start Num: 8
Candidate Starts for Demodog_250:
(6, 136683), (Start: 8 @136725 has 157 MA's), (Start: 9 @136752 has 1 MA's), (13, 136821), (15, 136887), (16, 136905), (18, 136920), (19, 136959),

Gene: Derek_240 Start: 135836, Stop: 136138, Start Num: 8
Candidate Starts for Derek_240:
(6, 135794), (Start: 8 @135836 has 157 MA's), (Start: 9 @135863 has 1 MA's), (13, 135932), (15, 135998), (16, 136016), (18, 136031), (19, 136070),

Gene: Dessert_245 Start: 134835, Stop: 135137, Start Num: 8
Candidate Starts for Dessert_245:
(6, 134793), (Start: 8 @134835 has 157 MA's), (Start: 9 @134862 has 1 MA's), (13, 134931), (15, 134997), (16, 135015), (18, 135030), (19, 135069),

Gene: Dietrick_233 Start: 133699, Stop: 134001, Start Num: 8
Candidate Starts for Dietrick_233:
(6, 133657), (Start: 8 @133699 has 157 MA's), (Start: 9 @133726 has 1 MA's), (13, 133795), (15, 133861), (16, 133879), (18, 133894), (19, 133933),

Gene: Domi_238 Start: 135038, Stop: 135340, Start Num: 8
Candidate Starts for Domi_238:
(6, 134996), (Start: 8 @135038 has 157 MA's), (Start: 9 @135065 has 1 MA's), (13, 135134), (15, 135200), (16, 135218), (18, 135233), (19, 135272),

Gene: DrPhinkDaddy_241 Start: 136263, Stop: 136565, Start Num: 8
Candidate Starts for DrPhinkDaddy_241:
(6, 136221), (Start: 8 @136263 has 157 MA's), (10, 136299), (11, 136305), (15, 136425), (16, 136443), (18, 136458), (19, 136497),

Gene: Drazdys_241 Start: 135843, Stop: 136145, Start Num: 8
Candidate Starts for Drazdys_241:
(6, 135801), (Start: 8 @135843 has 157 MA's), (Start: 9 @135870 has 1 MA's), (13, 135939), (15, 136005), (16, 136023), (18, 136038), (19, 136077),

Gene: Duckfeet_238 Start: 134651, Stop: 134953, Start Num: 8
Candidate Starts for Duckfeet_238:
(6, 134609), (Start: 8 @134651 has 157 MA's), (Start: 9 @134678 has 1 MA's), (13, 134747), (15, 134813), (16, 134831), (18, 134846), (19, 134885),

Gene: ET08_230 Start: 134178, Stop: 134480, Start Num: 8
Candidate Starts for ET08_230:
(6, 134136), (Start: 8 @134178 has 157 MA's), (10, 134214), (11, 134220), (15, 134340), (16, 134358), (18, 134373), (19, 134412),

Gene: EasyJones_245 Start: 134219, Stop: 134521, Start Num: 8
Candidate Starts for EasyJones_245:

(6, 134177), (Start: 8 @134219 has 157 MA's), (Start: 9 @134246 has 1 MA's), (13, 134315), (15, 134381), (16, 134399), (18, 134414), (19, 134453),

Gene: EggyFarm_252 Start: 137064, Stop: 137366, Start Num: 8
Candidate Starts for EggyFarm_252:
(6, 137022), (Start: 8 @137064 has 157 MA's), (Start: 9 @137091 has 1 MA's), (13, 137160), (15, 137226), (16, 137244), (18, 137259), (19, 137298),

Gene: EmToTheThree_244 Start: 135602, Stop: 135904, Start Num: 8
Candidate Starts for EmToTheThree_244:
(6, 135560), (Start: 8 @135602 has 157 MA's), (Start: 9 @135629 has 1 MA's), (13, 135698), (15, 135764), (16, 135782), (18, 135797), (19, 135836),

Gene: EmmaElysia_249 Start: 136714, Stop: 137016, Start Num: 8
Candidate Starts for EmmaElysia_249:
(6, 136672), (Start: 8 @136714 has 157 MA's), (Start: 9 @136741 has 1 MA's), (13, 136810), (15, 136876), (16, 136894), (18, 136909), (19, 136948),

Gene: Erdmann_245 Start: 135570, Stop: 135872, Start Num: 8
Candidate Starts for Erdmann_245:
(6, 135528), (Start: 8 @135570 has 157 MA's), (Start: 9 @135597 has 1 MA's), (13, 135666), (16, 135750), (18, 135765), (19, 135804),

Gene: ErnieJ_237 Start: 132398, Stop: 132700, Start Num: 8
Candidate Starts for ErnieJ_237:
(6, 132356), (Start: 8 @132398 has 157 MA's), (Start: 9 @132425 has 1 MA's), (13, 132494), (15, 132560), (16, 132578), (18, 132593), (19, 132632),

Gene: Essence_242 Start: 135055, Stop: 135357, Start Num: 8
Candidate Starts for Essence_242:
(5, 134989), (6, 135013), (Start: 8 @135055 has 157 MA's), (Start: 9 @135082 has 1 MA's), (13, 135151), (15, 135217), (16, 135235), (18, 135250), (19, 135289),

Gene: Ewok_243 Start: 135513, Stop: 135815, Start Num: 8
Candidate Starts for Ewok_243:
(6, 135471), (Start: 8 @135513 has 157 MA's), (10, 135549), (11, 135555), (15, 135675), (16, 135693), (18, 135708), (19, 135747),

Gene: Finch_6 Start: 3596, Stop: 3955, Start Num: 8
Candidate Starts for Finch_6:
(1, 3281), (2, 3314), (4, 3497), (Start: 8 @3596 has 157 MA's), (12, 3647), (22, 3923),

Gene: Fixie_236 Start: 135835, Stop: 136137, Start Num: 8
Candidate Starts for Fixie_236:
(6, 135793), (Start: 8 @135835 has 157 MA's), (Start: 9 @135862 has 1 MA's), (13, 135931), (15, 135997), (16, 136015), (18, 136030), (19, 136069),

Gene: Fludd_244 Start: 133931, Stop: 134233, Start Num: 8
Candidate Starts for Fludd_244:
(6, 133889), (Start: 8 @133931 has 157 MA's), (Start: 9 @133958 has 1 MA's), (13, 134027), (15, 134093), (16, 134111), (18, 134126), (19, 134165),

Gene: Fongie_244 Start: 135511, Stop: 135813, Start Num: 8

Candidate Starts for Fongie_244:
(6, 135469), (Start: 8 @135511 has 157 MA's), (Start: 9 @135538 has 1 MA's), (13, 135607), (15, 135673), (16, 135691), (18, 135706), (19, 135745),

Gene: FoxtrotP1_242 Start: 136156, Stop: 136458, Start Num: 8
Candidate Starts for FoxtrotP1_242:
(6, 136114), (Start: 8 @136156 has 157 MA's), (Start: 9 @136183 has 1 MA's), (13, 136252), (16, 136336), (18, 136351), (19, 136390),

Gene: FudgeTart_239 Start: 134660, Stop: 134962, Start Num: 8
Candidate Starts for FudgeTart_239:
(6, 134618), (Start: 8 @134660 has 157 MA's), (10, 134696), (11, 134702), (15, 134822), (16, 134840), (18, 134855), (19, 134894),

Gene: Gabriel_247 Start: 134090, Stop: 134392, Start Num: 8
Candidate Starts for Gabriel_247:
(6, 134048), (Start: 8 @134090 has 157 MA's), (Start: 9 @134117 has 1 MA's), (13, 134186), (15, 134252), (16, 134270), (18, 134285), (19, 134324),

Gene: Gamgam_246 Start: 134447, Stop: 134749, Start Num: 8
Candidate Starts for Gamgam_246:
(6, 134405), (Start: 8 @134447 has 157 MA's), (Start: 9 @134474 has 1 MA's), (13, 134543), (15, 134609), (16, 134627), (18, 134642), (19, 134681),

Gene: Ghost_244 Start: 135071, Stop: 135373, Start Num: 8
Candidate Starts for Ghost_244:
(6, 135029), (Start: 8 @135071 has 157 MA's), (Start: 9 @135098 has 1 MA's), (13, 135167), (15, 135233), (16, 135251), (18, 135266), (19, 135305),

Gene: Gizmo_249 Start: 137487, Stop: 137789, Start Num: 8
Candidate Starts for Gizmo_249:
(6, 137445), (Start: 8 @137487 has 157 MA's), (Start: 9 @137514 has 1 MA's), (13, 137583), (16, 137667), (18, 137682), (19, 137721),

Gene: GlutenPhree_245 Start: 134458, Stop: 134760, Start Num: 8
Candidate Starts for GlutenPhree_245:
(6, 134416), (Start: 8 @134458 has 157 MA's), (Start: 9 @134485 has 1 MA's), (13, 134554), (15, 134620), (16, 134638), (18, 134653), (19, 134692),

Gene: GoldenSnow_243 Start: 135608, Stop: 135910, Start Num: 8
Candidate Starts for GoldenSnow_243:
(6, 135566), (Start: 8 @135608 has 157 MA's), (Start: 9 @135635 has 1 MA's), (13, 135704), (15, 135770), (16, 135788), (18, 135803), (19, 135842),

Gene: Grasshills_251 Start: 137063, Stop: 137365, Start Num: 8
Candidate Starts for Grasshills_251:
(6, 137021), (Start: 8 @137063 has 157 MA's), (Start: 9 @137090 has 1 MA's), (13, 137159), (15, 137225), (16, 137243), (18, 137258), (19, 137297),

Gene: Guwapp_240 Start: 133905, Stop: 134207, Start Num: 8
Candidate Starts for Guwapp_240:
(6, 133863), (Start: 8 @133905 has 157 MA's), (Start: 9 @133932 has 1 MA's), (13, 134001), (15, 134067), (16, 134085), (18, 134100), (19, 134139),

Gene: IkeLoa_238 Start: 134803, Stop: 135105, Start Num: 8
Candidate Starts for IkeLoa_238:
(6, 134761), (Start: 8 @134803 has 157 MA's), (Start: 9 @134830 has 1 MA's), (13, 134899), (15, 134965), (16, 134983), (18, 134998), (19, 135037),

Gene: InigoMontoya_248 Start: 135121, Stop: 135423, Start Num: 8
Candidate Starts for InigoMontoya_248:
(6, 135079), (Start: 8 @135121 has 157 MA's), (Start: 9 @135148 has 1 MA's), (13, 135217), (15, 135283), (16, 135301), (18, 135316), (19, 135355),

Gene: Iota_241 Start: 134833, Stop: 135135, Start Num: 8
Candidate Starts for Iota_241:
(6, 134791), (Start: 8 @134833 has 157 MA's), (Start: 9 @134860 has 1 MA's), (13, 134929), (16, 135013), (18, 135028), (19, 135067),

Gene: Issimir_237 Start: 134759, Stop: 135061, Start Num: 8
Candidate Starts for Issimir_237:
(6, 134717), (Start: 8 @134759 has 157 MA's), (10, 134795), (11, 134801), (15, 134921), (16, 134939), (18, 134954), (19, 134993),

Gene: Izajani_240 Start: 135653, Stop: 135955, Start Num: 8
Candidate Starts for Izajani_240:
(6, 135611), (Start: 8 @135653 has 157 MA's), (10, 135689), (11, 135695), (15, 135815), (16, 135833), (18, 135848), (19, 135887),

Gene: JPickles_241 Start: 133809, Stop: 134111, Start Num: 8
Candidate Starts for JPickles_241:
(6, 133767), (Start: 8 @133809 has 157 MA's), (Start: 9 @133836 has 1 MA's), (13, 133905), (15, 133971), (16, 133989), (18, 134004), (19, 134043),

Gene: Janiyra_247 Start: 135346, Stop: 135648, Start Num: 8
Candidate Starts for Janiyra_247:
(6, 135304), (Start: 8 @135346 has 157 MA's), (Start: 9 @135373 has 1 MA's), (13, 135442), (15, 135508), (16, 135526), (18, 135541), (19, 135580),

Gene: Jaygup_241 Start: 134980, Stop: 135282, Start Num: 8
Candidate Starts for Jaygup_241:
(6, 134938), (Start: 8 @134980 has 157 MA's), (Start: 9 @135007 has 1 MA's), (13, 135076), (15, 135142), (16, 135160), (18, 135175), (19, 135214),

Gene: Jedediah_246 Start: 136033, Stop: 136335, Start Num: 8
Candidate Starts for Jedediah_246:
(6, 135991), (Start: 8 @136033 has 157 MA's), (Start: 9 @136060 has 1 MA's), (13, 136129), (15, 136195), (16, 136213), (18, 136228), (19, 136267),

Gene: Jemmno_244 Start: 134752, Stop: 135054, Start Num: 8
Candidate Starts for Jemmno_244:
(6, 134710), (Start: 8 @134752 has 157 MA's), (Start: 9 @134779 has 1 MA's), (13, 134848), (15, 134914), (16, 134932), (18, 134947), (19, 134986),

Gene: Jessibeth14_244 Start: 136228, Stop: 136530, Start Num: 8
Candidate Starts for Jessibeth14_244:

(6, 136186), (Start: 8 @136228 has 157 MA's), (Start: 9 @136255 has 1 MA's), (13, 136324), (15, 136390), (16, 136408), (18, 136423), (19, 136462),

Gene: Jezreel_241 Start: 135297, Stop: 135599, Start Num: 8
Candidate Starts for Jezreel_241:
(6, 135255), (Start: 8 @135297 has 157 MA's), (10, 135333), (11, 135339), (15, 135459), (16, 135477), (18, 135492), (19, 135531),

Gene: JigglyPuff_250 Start: 136723, Stop: 137025, Start Num: 8
Candidate Starts for JigglyPuff_250:
(6, 136681), (Start: 8 @136723 has 157 MA's), (Start: 9 @136750 has 1 MA's), (13, 136819), (16, 136903), (18, 136918), (19, 136957),

Gene: JulietS_233 Start: 132332, Stop: 132634, Start Num: 8
Candidate Starts for JulietS_233:
(6, 132290), (Start: 8 @132332 has 157 MA's), (Start: 9 @132359 has 1 MA's), (13, 132428), (15, 132494), (16, 132512), (18, 132527), (19, 132566),

Gene: JustHall_238 Start: 134282, Stop: 134584, Start Num: 8
Candidate Starts for JustHall_238:
(6, 134240), (Start: 8 @134282 has 157 MA's), (Start: 9 @134309 has 1 MA's), (13, 134378), (15, 134444), (16, 134462), (18, 134477), (19, 134516),

Gene: Kamryn_243 Start: 135872, Stop: 136174, Start Num: 8
Candidate Starts for Kamryn_243:
(6, 135830), (Start: 8 @135872 has 157 MA's), (10, 135908), (11, 135914), (15, 136034), (16, 136052), (17, 136061), (18, 136067), (19, 136106),

Gene: Kboogie_248 Start: 134911, Stop: 135213, Start Num: 8
Candidate Starts for Kboogie_248:
(6, 134869), (Start: 8 @134911 has 157 MA's), (Start: 9 @134938 has 1 MA's), (13, 135007), (15, 135073), (16, 135091), (18, 135106), (19, 135145),

Gene: Khaleesi_243 Start: 135695, Stop: 135997, Start Num: 8
Candidate Starts for Khaleesi_243:
(6, 135653), (Start: 8 @135695 has 157 MA's), (Start: 9 @135722 has 1 MA's), (13, 135791), (15, 135857), (16, 135875), (18, 135890), (19, 135929),

Gene: LRRHood_236 Start: 133904, Stop: 134206, Start Num: 8
Candidate Starts for LRRHood_236:
(6, 133862), (Start: 8 @133904 has 157 MA's), (Start: 9 @133931 has 1 MA's), (13, 134000), (15, 134066), (16, 134084), (18, 134099), (19, 134138),

Gene: Labradorite_246 Start: 134471, Stop: 134773, Start Num: 8
Candidate Starts for Labradorite_246:
(6, 134429), (Start: 8 @134471 has 157 MA's), (Start: 9 @134498 has 1 MA's), (13, 134567), (15, 134633), (16, 134651), (18, 134666), (19, 134705),

Gene: Latch_244 Start: 134457, Stop: 134759, Start Num: 8
Candidate Starts for Latch_244:
(6, 134415), (Start: 8 @134457 has 157 MA's), (Start: 9 @134484 has 1 MA's), (13, 134553), (15, 134619), (16, 134637), (18, 134652), (19, 134691),

Gene: Lee7_248 Start: 137109, Stop: 137411, Start Num: 8
Candidate Starts for Lee7_248:
(6, 137067), (Start: 8 @137109 has 157 MA's), (10, 137145), (11, 137151), (15, 137271), (16, 137289), (18, 137304), (19, 137343),

Gene: LifeSavor_245 Start: 135685, Stop: 135987, Start Num: 8
Candidate Starts for LifeSavor_245:
(6, 135643), (Start: 8 @135685 has 157 MA's), (Start: 9 @135712 has 1 MA's), (13, 135781), (15, 135847), (16, 135865), (18, 135880), (19, 135919),

Gene: Littleton_248 Start: 135694, Stop: 135996, Start Num: 8
Candidate Starts for Littleton_248:
(6, 135652), (Start: 8 @135694 has 157 MA's), (Start: 9 @135721 has 1 MA's), (13, 135790), (15, 135856), (16, 135874), (18, 135889), (19, 135928),

Gene: Loanshark_241 Start: 135044, Stop: 135346, Start Num: 8
Candidate Starts for Loanshark_241:
(6, 135002), (Start: 8 @135044 has 157 MA's), (10, 135080), (11, 135086), (15, 135206), (16, 135224), (18, 135239), (19, 135278),

Gene: LookingGlass_242 Start: 135202, Stop: 135504, Start Num: 8
Candidate Starts for LookingGlass_242:
(6, 135160), (Start: 8 @135202 has 157 MA's), (Start: 9 @135229 has 1 MA's), (13, 135298), (15, 135364), (16, 135382), (18, 135397), (19, 135436),

Gene: Lukilu_233 Start: 135920, Stop: 136222, Start Num: 8
Candidate Starts for Lukilu_233:
(6, 135878), (Start: 8 @135920 has 157 MA's), (Start: 9 @135947 has 1 MA's), (13, 136016), (15, 136082), (16, 136100), (18, 136115), (19, 136154),

Gene: Maby2021_244 Start: 136148, Stop: 136450, Start Num: 8
Candidate Starts for Maby2021_244:
(6, 136106), (Start: 8 @136148 has 157 MA's), (Start: 9 @136175 has 1 MA's), (13, 136244), (16, 136328), (18, 136343), (19, 136382),

Gene: Maguvora_245 Start: 135889, Stop: 136191, Start Num: 8
Candidate Starts for Maguvora_245:
(6, 135847), (Start: 8 @135889 has 157 MA's), (Start: 9 @135916 has 1 MA's), (13, 135985), (15, 136051), (16, 136069), (18, 136084), (19, 136123),

Gene: Matsumoto_242 Start: 134899, Stop: 135201, Start Num: 8
Candidate Starts for Matsumoto_242:
(6, 134857), (Start: 8 @134899 has 157 MA's), (Start: 9 @134926 has 1 MA's), (13, 134995), (15, 135061), (16, 135079), (18, 135094), (19, 135133),

Gene: McGee_245 Start: 134796, Stop: 135098, Start Num: 8
Candidate Starts for McGee_245:
(6, 134754), (Start: 8 @134796 has 157 MA's), (Start: 9 @134823 has 1 MA's), (13, 134892), (15, 134958), (16, 134976), (18, 134991), (19, 135030),

Gene: McWolfish_241 Start: 134906, Stop: 135208, Start Num: 8
Candidate Starts for McWolfish_241:

(6, 134864), (Start: 8 @134906 has 157 MA's), (Start: 9 @134933 has 1 MA's), (13, 135002), (15, 135068), (16, 135086), (18, 135101), (19, 135140),

Gene: Megamind_241 Start: 135231, Stop: 135533, Start Num: 8
Candidate Starts for Megamind_241:
(6, 135189), (Start: 8 @135231 has 157 MA's), (10, 135267), (11, 135273), (15, 135393), (16, 135411), (18, 135426), (19, 135465),

Gene: Melpomini_239 Start: 133991, Stop: 134293, Start Num: 8
Candidate Starts for Melpomini_239:
(6, 133949), (Start: 8 @133991 has 157 MA's), (Start: 9 @134018 has 1 MA's), (13, 134087), (15, 134153), (16, 134171), (18, 134186), (19, 134225),

Gene: MikeLiesIn_245 Start: 136367, Stop: 136669, Start Num: 8
Candidate Starts for MikeLiesIn_245:
(6, 136325), (Start: 8 @136367 has 157 MA's), (10, 136403), (11, 136409), (15, 136529), (16, 136547), (18, 136562), (19, 136601),

Gene: MoMoMixon_240 Start: 135372, Stop: 135674, Start Num: 8
Candidate Starts for MoMoMixon_240:
(6, 135330), (Start: 8 @135372 has 157 MA's), (Start: 9 @135399 has 1 MA's), (13, 135468), (16, 135552), (18, 135567), (19, 135606),

Gene: Momo_246 Start: 134457, Stop: 134759, Start Num: 8
Candidate Starts for Momo_246:
(6, 134415), (Start: 8 @134457 has 157 MA's), (Start: 9 @134484 has 1 MA's), (13, 134553), (15, 134619), (16, 134637), (18, 134652), (19, 134691),

Gene: Morizzled23_241 Start: 133824, Stop: 134126, Start Num: 8
Candidate Starts for Morizzled23_241:
(6, 133782), (Start: 8 @133824 has 157 MA's), (Start: 9 @133851 has 1 MA's), (13, 133920), (15, 133986), (16, 134004), (18, 134019), (19, 134058),

Gene: Naija_245 Start: 135160, Stop: 135462, Start Num: 8
Candidate Starts for Naija_245:
(6, 135118), (Start: 8 @135160 has 157 MA's), (Start: 9 @135187 has 1 MA's), (13, 135256), (15, 135322), (16, 135340), (18, 135355), (19, 135394),

Gene: Napoleon13_241 Start: 134189, Stop: 134491, Start Num: 8
Candidate Starts for Napoleon13_241:
(6, 134147), (Start: 8 @134189 has 157 MA's), (Start: 9 @134216 has 1 MA's), (13, 134285), (15, 134351), (16, 134369), (18, 134384), (19, 134423),

Gene: Naval22_251 Start: 136940, Stop: 137242, Start Num: 8
Candidate Starts for Naval22_251:
(6, 136898), (Start: 8 @136940 has 157 MA's), (Start: 9 @136967 has 1 MA's), (13, 137036), (16, 137120), (18, 137135), (19, 137174),

Gene: NedWong_243 Start: 135618, Stop: 135920, Start Num: 8
Candidate Starts for NedWong_243:
(6, 135576), (Start: 8 @135618 has 157 MA's), (10, 135654), (11, 135660), (15, 135780), (16, 135798), (18, 135813), (19, 135852),

Gene: Ngannou_239 Start: 134142, Stop: 134444, Start Num: 8
Candidate Starts for Ngannou_239:
(6, 134100), (Start: 8 @134142 has 157 MA's), (Start: 9 @134169 has 1 MA's), (13, 134238), (15, 134304), (16, 134322), (18, 134337), (19, 134376),

Gene: Nidhogg_245 Start: 135986, Stop: 136288, Start Num: 8
Candidate Starts for Nidhogg_245:
(6, 135944), (Start: 8 @135986 has 157 MA's), (10, 136022), (11, 136028), (15, 136148), (16, 136166), (18, 136181), (19, 136220),

Gene: NoodleTree_240 Start: 130737, Stop: 131039, Start Num: 8
Candidate Starts for NoodleTree_240:
(6, 130695), (Start: 8 @130737 has 157 MA's), (Start: 9 @130764 has 1 MA's), (13, 130833), (15, 130899), (16, 130917), (18, 130932), (19, 130971),

Gene: Norm_244 Start: 135887, Stop: 136189, Start Num: 8
Candidate Starts for Norm_244:
(6, 135845), (Start: 8 @135887 has 157 MA's), (10, 135923), (11, 135929), (15, 136049), (16, 136067), (18, 136082), (19, 136121),

Gene: OrediggerDelux_245 Start: 136113, Stop: 136415, Start Num: 8
Candidate Starts for OrediggerDelux_245:
(6, 136071), (Start: 8 @136113 has 157 MA's), (10, 136149), (11, 136155), (15, 136275), (16, 136293), (18, 136308), (19, 136347),

Gene: ParkTD_243 Start: 135457, Stop: 135759, Start Num: 8
Candidate Starts for ParkTD_243:
(6, 135415), (Start: 8 @135457 has 157 MA's), (10, 135493), (11, 135499), (15, 135619), (16, 135637), (18, 135652), (19, 135691),

Gene: Phlegm_249 Start: 135863, Stop: 136165, Start Num: 8
Candidate Starts for Phlegm_249:
(6, 135821), (Start: 8 @135863 has 157 MA's), (Start: 9 @135890 has 1 MA's), (13, 135959), (15, 136025), (16, 136043), (18, 136058), (19, 136097),

Gene: Phox_245 Start: 135112, Stop: 135414, Start Num: 8
Candidate Starts for Phox_245:
(6, 135070), (Start: 8 @135112 has 157 MA's), (10, 135148), (11, 135154), (15, 135274), (16, 135292), (18, 135307), (19, 135346),

Gene: Phusco_243 Start: 134695, Stop: 134997, Start Num: 8
Candidate Starts for Phusco_243:
(6, 134653), (Start: 8 @134695 has 157 MA's), (Start: 9 @134722 has 1 MA's), (13, 134791), (15, 134857), (16, 134875), (18, 134890), (19, 134929),

Gene: Pier_243 Start: 135988, Stop: 136290, Start Num: 8
Candidate Starts for Pier_243:
(6, 135946), (Start: 8 @135988 has 157 MA's), (10, 136024), (11, 136030), (15, 136150), (16, 136168), (18, 136183), (19, 136222),

Gene: Pio_251 Start: 137191, Stop: 137493, Start Num: 8
Candidate Starts for Pio_251:

(6, 137149), (Start: 8 @137191 has 157 MA's), (Start: 9 @137218 has 1 MA's), (13, 137287), (15, 137353), (16, 137371), (18, 137386), (19, 137425),

Gene: Pivoine_245 Start: 135160, Stop: 135462, Start Num: 8
Candidate Starts for Pivoine_245:
(6, 135118), (Start: 8 @135160 has 157 MA's), (Start: 9 @135187 has 1 MA's), (13, 135256), (15, 135322), (16, 135340), (18, 135355), (19, 135394),

Gene: Pleione_248 Start: 135923, Stop: 136225, Start Num: 8
Candidate Starts for Pleione_248:
(6, 135881), (Start: 8 @135923 has 157 MA's), (Start: 9 @135950 has 1 MA's), (13, 136019), (16, 136103), (18, 136118), (19, 136157),

Gene: Primadonna_238 Start: 134823, Stop: 135125, Start Num: 8
Candidate Starts for Primadonna_238:
(6, 134781), (Start: 8 @134823 has 157 MA's), (Start: 9 @134850 has 1 MA's), (13, 134919), (15, 134985), (16, 135003), (18, 135018), (19, 135057),

Gene: Puhon_245 Start: 135819, Stop: 136121, Start Num: 8
Candidate Starts for Puhon_245:
(6, 135777), (Start: 8 @135819 has 157 MA's), (Start: 9 @135846 has 1 MA's), (13, 135915), (15, 135981), (16, 135999), (18, 136014), (19, 136053),

Gene: Pupusa_247 Start: 136487, Stop: 136789, Start Num: 8
Candidate Starts for Pupusa_247:
(6, 136445), (Start: 8 @136487 has 157 MA's), (Start: 9 @136514 has 1 MA's), (13, 136583), (15, 136649), (16, 136667), (18, 136682), (19, 136721),

Gene: PurduePete_244 Start: 136188, Stop: 136490, Start Num: 8
Candidate Starts for PurduePete_244:
(6, 136146), (Start: 8 @136188 has 157 MA's), (Start: 9 @136215 has 1 MA's), (13, 136284), (15, 136350), (16, 136368), (18, 136383), (19, 136422),

Gene: QBert_236 Start: 133511, Stop: 133813, Start Num: 8
Candidate Starts for QBert_236:
(6, 133469), (Start: 8 @133511 has 157 MA's), (Start: 9 @133538 has 1 MA's), (13, 133607), (15, 133673), (16, 133691), (18, 133706), (19, 133745),

Gene: Quasimodo_247 Start: 135496, Stop: 135798, Start Num: 8
Candidate Starts for Quasimodo_247:
(6, 135454), (Start: 8 @135496 has 157 MA's), (Start: 9 @135523 has 1 MA's), (13, 135592), (15, 135658), (16, 135676), (18, 135691), (19, 135730),

Gene: Rahel_246 Start: 135598, Stop: 135900, Start Num: 8
Candidate Starts for Rahel_246:
(6, 135556), (Start: 8 @135598 has 157 MA's), (Start: 9 @135625 has 1 MA's), (13, 135694), (15, 135760), (16, 135778), (18, 135793), (19, 135832),

Gene: Rizal_233 Start: 133413, Stop: 133715, Start Num: 8
Candidate Starts for Rizal_233:
(6, 133371), (Start: 8 @133413 has 157 MA's), (Start: 9 @133440 has 1 MA's), (13, 133509), (15, 133575), (16, 133593), (18, 133608), (19, 133647),

Gene: RoMag_239 Start: 135194, Stop: 135496, Start Num: 8
Candidate Starts for RoMag_239:
(6, 135152), (Start: 8 @135194 has 157 MA's), (Start: 9 @135221 has 1 MA's), (13, 135290), (15, 135356), (16, 135374), (18, 135389), (19, 135428),

Gene: Rocha_240 Start: 134759, Stop: 135061, Start Num: 8
Candidate Starts for Rocha_240:
(6, 134717), (Start: 8 @134759 has 157 MA's), (Start: 9 @134786 has 1 MA's), (13, 134855), (15, 134921), (16, 134939), (18, 134954), (19, 134993),

Gene: Ronan_240 Start: 133586, Stop: 133888, Start Num: 8
Candidate Starts for Ronan_240:
(6, 133544), (Start: 8 @133586 has 157 MA's), (10, 133622), (11, 133628), (15, 133748), (16, 133766), (18, 133781), (19, 133820),

Gene: Roots515_247 Start: 136739, Stop: 137041, Start Num: 8
Candidate Starts for Roots515_247:
(6, 136697), (Start: 8 @136739 has 157 MA's), (10, 136775), (11, 136781), (15, 136901), (16, 136919), (18, 136934), (19, 136973),

Gene: SVoro_239 Start: 135496, Stop: 135798, Start Num: 8
Candidate Starts for SVoro_239:
(6, 135454), (Start: 8 @135496 has 157 MA's), (Start: 9 @135523 has 1 MA's), (13, 135592), (15, 135658), (16, 135676), (18, 135691), (19, 135730),

Gene: Salacia_245 Start: 136614, Stop: 136916, Start Num: 8
Candidate Starts for Salacia_245:
(6, 136572), (Start: 8 @136614 has 157 MA's), (10, 136650), (11, 136656), (15, 136776), (16, 136794), (18, 136809), (19, 136848),

Gene: Sauce_241 Start: 134922, Stop: 135224, Start Num: 8
Candidate Starts for Sauce_241:
(6, 134880), (Start: 8 @134922 has 157 MA's), (Start: 9 @134949 has 1 MA's), (13, 135018), (15, 135084), (16, 135102), (18, 135117), (19, 135156),

Gene: Shaqnato_235 Start: 134332, Stop: 134634, Start Num: 8
Candidate Starts for Shaqnato_235:
(6, 134290), (Start: 8 @134332 has 157 MA's), (Start: 9 @134359 has 1 MA's), (13, 134428), (15, 134494), (16, 134512), (18, 134527), (19, 134566),

Gene: Shelob_245 Start: 137057, Stop: 137359, Start Num: 8
Candidate Starts for Shelob_245:
(6, 137015), (Start: 8 @137057 has 157 MA's), (10, 137093), (11, 137099), (15, 137219), (16, 137237), (18, 137252), (19, 137291),

Gene: ShiaLabeouf_242 Start: 134916, Stop: 135218, Start Num: 8
Candidate Starts for ShiaLabeouf_242:
(6, 134874), (Start: 8 @134916 has 157 MA's), (Start: 9 @134943 has 1 MA's), (13, 135012), (15, 135078), (16, 135096), (18, 135111), (19, 135150),

Gene: Shnickers_243 Start: 134980, Stop: 135282, Start Num: 8
Candidate Starts for Shnickers_243:

(6, 134938), (Start: 8 @134980 has 157 MA's), (Start: 9 @135007 has 1 MA's), (13, 135076), (15, 135142), (16, 135160), (18, 135175), (19, 135214),

Gene: Shrimp_246 Start: 136225, Stop: 136527, Start Num: 8
Candidate Starts for Shrimp_246:
(6, 136183), (Start: 8 @136225 has 157 MA's), (Start: 9 @136252 has 1 MA's), (13, 136321), (16, 136405), (18, 136420), (19, 136459),

Gene: SilverDipper_249 Start: 135716, Stop: 136018, Start Num: 8
Candidate Starts for SilverDipper_249:
(6, 135674), (Start: 8 @135716 has 157 MA's), (Start: 9 @135743 has 1 MA's), (13, 135812), (15, 135878), (16, 135896), (18, 135911), (19, 135950),

Gene: SiwenD96_245 Start: 136562, Stop: 136864, Start Num: 8
Candidate Starts for SiwenD96_245:
(6, 136520), (Start: 8 @136562 has 157 MA's), (Start: 9 @136589 has 1 MA's), (13, 136658), (15, 136724), (16, 136742), (18, 136757), (19, 136796),

Gene: SmallFry_245 Start: 135074, Stop: 135376, Start Num: 8
Candidate Starts for SmallFry_245:
(6, 135032), (Start: 8 @135074 has 157 MA's), (Start: 9 @135101 has 1 MA's), (13, 135170), (15, 135236), (16, 135254), (18, 135269), (19, 135308),

Gene: SoilZilla_237 Start: 134229, Stop: 134531, Start Num: 8
Candidate Starts for SoilZilla_237:
(6, 134187), (Start: 8 @134229 has 157 MA's), (Start: 9 @134256 has 1 MA's), (13, 134325), (15, 134391), (16, 134409), (18, 134424), (19, 134463),

Gene: Specks_248 Start: 135565, Stop: 135867, Start Num: 8
Candidate Starts for Specks_248:
(6, 135523), (Start: 8 @135565 has 157 MA's), (Start: 9 @135592 has 1 MA's), (13, 135661), (15, 135727), (16, 135745), (18, 135760), (19, 135799),

Gene: Sprinklers_242 Start: 134822, Stop: 135124, Start Num: 8
Candidate Starts for Sprinklers_242:
(6, 134780), (Start: 8 @134822 has 157 MA's), (Start: 9 @134849 has 1 MA's), (13, 134918), (15, 134984), (16, 135002), (18, 135017), (19, 135056),

Gene: Spud_236 Start: 134531, Stop: 134833, Start Num: 8
Candidate Starts for Spud_236:
(6, 134489), (Start: 8 @134531 has 157 MA's), (Start: 9 @134558 has 1 MA's), (13, 134627), (15, 134693), (16, 134711), (18, 134726), (19, 134765),

Gene: SrishMeg2525_241 Start: 135720, Stop: 136022, Start Num: 8
Candidate Starts for SrishMeg2525_241:
(6, 135678), (Start: 8 @135720 has 157 MA's), (10, 135756), (11, 135762), (15, 135882), (16, 135900), (18, 135915), (19, 135954),

Gene: StephanieG_238 Start: 135717, Stop: 136019, Start Num: 8
Candidate Starts for StephanieG_238:
(6, 135675), (Start: 8 @135717 has 157 MA's), (Start: 9 @135744 has 1 MA's), (13, 135813), (15, 135879), (16, 135897), (18, 135912), (19, 135951),

Gene: StubbySaigey_250 Start: 135250, Stop: 135552, Start Num: 8
Candidate Starts for StubbySaigey_250:
(6, 135208), (Start: 8 @135250 has 157 MA's), (Start: 9 @135277 has 1 MA's), (13, 135346), (15, 135412), (16, 135430), (18, 135445), (19, 135484),

Gene: Substance289_240 Start: 135122, Stop: 135424, Start Num: 8
Candidate Starts for Substance289_240:
(6, 135080), (Start: 8 @135122 has 157 MA's), (Start: 9 @135149 has 1 MA's), (13, 135218), (15, 135284), (16, 135302), (18, 135317), (19, 135356),

Gene: Teardrop_242 Start: 134577, Stop: 134879, Start Num: 8
Candidate Starts for Teardrop_242:
(6, 134535), (Start: 8 @134577 has 157 MA's), (Start: 9 @134604 has 1 MA's), (13, 134673), (15, 134739), (16, 134757), (18, 134772), (19, 134811),

Gene: TinyTim_242 Start: 134544, Stop: 134846, Start Num: 8
Candidate Starts for TinyTim_242:
(6, 134502), (Start: 8 @134544 has 157 MA's), (Start: 9 @134571 has 1 MA's), (13, 134640), (16, 134724), (18, 134739), (19, 134778),

Gene: Tonenili_266 Start: 140370, Stop: 140672, Start Num: 8
Candidate Starts for Tonenili_266:
(6, 140328), (Start: 8 @140370 has 157 MA's), (10, 140406), (11, 140412), (13, 140466), (15, 140532), (16, 140550), (18, 140565), (19, 140604),

Gene: Tortoise16_242 Start: 135033, Stop: 135308, Start Num: 9
Candidate Starts for Tortoise16_242:
(6, 134964), (Start: 8 @135006 has 157 MA's), (Start: 9 @135033 has 1 MA's), (13, 135102), (15, 135168), (16, 135186), (18, 135201), (19, 135240),

Gene: Trinitium_240 Start: 133298, Stop: 133600, Start Num: 8
Candidate Starts for Trinitium_240:
(6, 133256), (Start: 8 @133298 has 157 MA's), (Start: 9 @133325 has 1 MA's), (13, 133394), (15, 133460), (16, 133478), (18, 133493), (19, 133532),

Gene: Turret_235 Start: 132880, Stop: 133182, Start Num: 8
Candidate Starts for Turret_235:
(6, 132838), (Start: 8 @132880 has 157 MA's), (Start: 9 @132907 has 1 MA's), (13, 132976), (15, 133042), (16, 133060), (18, 133075), (19, 133114),

Gene: ValleyTerrace_245 Start: 134457, Stop: 134759, Start Num: 8
Candidate Starts for ValleyTerrace_245:
(6, 134415), (Start: 8 @134457 has 157 MA's), (Start: 9 @134484 has 1 MA's), (13, 134553), (15, 134619), (16, 134637), (18, 134652), (19, 134691),

Gene: Vortrix_262 Start: 139157, Stop: 139459, Start Num: 8
Candidate Starts for Vortrix_262:
(6, 139115), (Start: 8 @139157 has 157 MA's), (10, 139193), (11, 139199), (13, 139253), (15, 139319), (16, 139337), (18, 139352), (19, 139391),

Gene: Wally_242 Start: 134441, Stop: 134743, Start Num: 8
Candidate Starts for Wally_242:

(6, 134399), (Start: 8 @134441 has 157 MA's), (Start: 9 @134468 has 1 MA's), (13, 134537), (15, 134603), (16, 134621), (18, 134636), (19, 134675),

Gene: Willis_245 Start: 135380, Stop: 135682, Start Num: 8
Candidate Starts for Willis_245:
(6, 135338), (Start: 8 @135380 has 157 MA's), (10, 135416), (11, 135422), (15, 135542), (16, 135560), (18, 135575), (19, 135614),

Gene: Yassified_240 Start: 134587, Stop: 134889, Start Num: 8
Candidate Starts for Yassified_240:
(6, 134545), (Start: 8 @134587 has 157 MA's), (10, 134623), (11, 134629), (15, 134749), (16, 134767), (18, 134782), (19, 134821),

Gene: YemiJoy2021_245 Start: 136111, Stop: 136413, Start Num: 8
Candidate Starts for YemiJoy2021_245:
(6, 136069), (Start: 8 @136111 has 157 MA's), (10, 136147), (11, 136153), (15, 136273), (16, 136291), (18, 136306), (19, 136345),

Gene: Yucca_244 Start: 136103, Stop: 136405, Start Num: 8
Candidate Starts for Yucca_244:
(6, 136061), (Start: 8 @136103 has 157 MA's), (Start: 9 @136130 has 1 MA's), (13, 136199), (16, 136283), (18, 136298), (19, 136337),

Gene: Zalkecks_243 Start: 135209, Stop: 135511, Start Num: 8
Candidate Starts for Zalkecks_243:
(6, 135167), (Start: 8 @135209 has 157 MA's), (10, 135245), (11, 135251), (15, 135371), (16, 135389), (18, 135404), (19, 135443),

Gene: Zeenon_245 Start: 135743, Stop: 136045, Start Num: 8
Candidate Starts for Zeenon_245:
(6, 135701), (Start: 8 @135743 has 157 MA's), (10, 135779), (11, 135785), (15, 135905), (16, 135923), (18, 135938), (19, 135977),

Gene: ZygoTaiga_240 Start: 136400, Stop: 136702, Start Num: 8
Candidate Starts for ZygoTaiga_240:
(6, 136358), (Start: 8 @136400 has 157 MA's), (10, 136436), (11, 136442), (15, 136562), (16, 136580), (18, 136595), (19, 136634),