

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 250346 Report

This analysis was run 02/07/26 on database version 634.

Pham number 250346 has 144 members, 24 are drafts.

Phages represented in each track:

- Track 1 : Scheme_151
- Track 2 : LilSaint_169, Braelyn_163, Davielle_161, Persimmon_161, Navo_159, WhereRU_160
- Track 3 : Flabslab_167, Trinitium_170, Fixie_172, BananaFence_170, Shrimp_174, Ading_173, Janiyra_176, Phlegm_176, Capablanca_175, Tortoise16_170, ChickenPhender_169, Phusco_171, Bowman_171, Ngannou_169, Nidhogg_172, Blackbrain_168, Primadonna_167, Turret_167, EmToTheThree_173, Gabriel_174, DTDevon_174, Asterius_174, Chargie21_170, Shifa_162, McGee_173, Pio_179, Drazdys_172, StubbySaigey_175, InigoMontoya_175, Domi_166, Yucca_170, Bonray_173, Pleione_174, Fludd_173, Khaleesi_170, Labradorite_171, Cactojaque_168, LifeSavor_170, SilverDipper_174, Patter_172, Gamgam_173, Littleton_173, Wally_171, LinStu_169, Ablatia_173, HyRo_161, Chomp_172, Babyland_175, Dietrick_162, Darko_171, Moby_166, Pivoine_172, Matsumoto_170, Audrick_175, Jessibeth14_171, PurduePete_171, Moiqah_165, Dessert_170, Sebata_172, Lee7_170, DeejaClivia_159, CindyLou_174, Roots515_175, Melpomini_165, ValleyTerrace_172, ErnieJ_166, Kboogie_175, Naija_172, ArcherS7_173, Delylah_172, ChaylaJr_169, GlutenPhree_173, Burrough_174, Yassified_168, Astraea_167, Amataga_172, EasyJones_175, Quasimodo_175, Breeniome_173, Momo_171, McWolfish_169, Zeenon_172, Shelob_172, Loanshark_169, Ghost_171, Fongie_171, Basquiat_170, Rocha_170, Napoleon13_169, BackyardAgain_169, EmmaElysia_173, SmallFry_172, LolaVinca_172, Latch_172, Atlantean_171
- Track 4 : Catera_167, Kamryn_171, Cleatunium_164, LookingGlass_172, Lethe_170, Rizal_166, NoodleTree_178, YemiJoy2021_171, Tainan_174, Jezreel_170, Dandelion_178, Mikro_169, Mangeria_172, StephanieG_170, RoMag_167
- Track 5 : Bxz1_167
- Track 6 : Lukilu_78
- Track 7 : Rabinovish_81
- Track 8 : Alice_148
- Track 9 : Emmetator_144
- Track 10 : Zaria_110, Calm_111
- Track 11 : CicholasNage_103
- Track 12 : Poochiewood_104
- Track 13 : Crossroads_113, MkaliMitinis3_113
- Track 14 : SoJulia_115
- Track 15 : SoJulia_111

- Track 16 : Auspice_113
- Track 17 : Bricole_94, Glaske16_97, PegLeg_96
- Track 18 : KleverKiS_96, SlimJimmy_96
- Track 19 : KleverKiS_115
- Track 20 : RoseMarie_117
- Track 21 : LilhomieP_113, Skinny_118, Glaske16_116, PegLeg_117
- Track 22 : Cosmo_101
- Track 23 : Yappy_47

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

The start number called the most often in the published annotations is 16, it was called in 100 of the 120 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia_173, Ading_173, Alice_148, Amataga_172, ArcherS7_173, Asterius_174, Astraea_167, Atlantean_171, Audrick_175, Auspice_113, Babyland_175, BackyardAgain_169, BananaFence_170, Basquiat_170, Blackbrain_168, Bonray_173, Bowman_171, Breeniome_173, Bricole_94, Burrough_174, Cactojaque_168, Capablanca_175, Catera_167, Chargie21_170, ChaylaJr_169, ChickenPhender_169, Chomp_172, CindyLou_174, Cleatunium_164, DTDevon_174, Dandelion_178, Darko_171, DeejaClivia_159, Delylah_172, Dessert_170, Dietrick_162, Domi_166, Drazdys_172, EasyJones_175, EmToTheThree_173, EmmaElysia_173, Emmetator_144, ErnieJ_166, Fixie_172, Flabslab_167, Fludd_173, Fongie_171, Gabriel_174, Gangam_173, Ghost_171, Glaske16_97, GlutenPhree_173, HyRo_161, InigoMontoya_175, Janiyra_176, Jessibeth14_171, Jezreel_170, Kamryn_171, Kboogie_175, Khaleesi_170, Labradorite_171, Latch_172, Lee7_170, Lethe_170, LifeSavor_170, LinStu_169, Littleton_173, Loanshark_169, LolaVinca_172, LookingGlass_172, Lukilu_78, Mangeria_172, Matsumoto_170, McGee_173, McWolfish_169, Melpomini_165, Mikro_169, Moby_166, Moiqah_165, Momo_171, Naija_172, Napoleon13_169, Ngannou_169, Nidhogg_172, NoodleTree_178, Patter_172, PegLeg_96, Phlegm_176, Phusco_171, Pio_179, Pivoine_172, Pleione_174, Primadonna_167, PurduePete_171, Quasimodo_175, Rizal_166, RoMag_167, Rocha_170, Roots515_175, Sebata_172, Shelob_172, Shifa_162, Shrimp_174, SilverDipper_174, SmallFry_172, SoJulia_115, StephanieG_170, StubbySaigey_175, Tainan_174, Tortoise16_170, Trinitium_170, Turret_167, ValleyTerrace_172, Wally_171, Yassified_168, YemiJoy2021_171, Yucca_170, Zeenon_172,

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

- Bxz1_167, Glaske16_116, KleverKiS_115, KleverKiS_96, LilhomieP_113, PegLeg_117, Rabinovich_81, Skinny_118, SlimJimmy_96,

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

- Braelyn_163, Calm_111, CicholasNage_103, Cosmo_101, Crossroads_113, Davielle_161, LilSaint_169, MkaliMitinis3_113, Navo_159, Persimmon_161, Poochiewood_104, RoseMarie_117, Scheme_151, SoJulia_111, WhereRU_160, Yappy_47, Zaria_110,

Summary by start number:

Start 4:

- Found in 2 of 144 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Poochiewood_104 (L1),

Start 6:

- Found in 6 of 144 (4.2%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: KleverKiS_115 (M1),

Start 7:

- Found in 5 of 144 (3.5%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 40.0% of time when present
- Phage (with cluster) where this start called: KleverKiS_96 (M1), SlimJimmy_96 (M1),

Start 9:

- Found in 1 of 144 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rabinovish_81 (C1),

Start 10:

- Found in 13 of 144 (9.0%) of genes in pham
- Manual Annotations of this start: 10 of 120
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Braelyn_163 (BE1), Calm_111 (L1), CicholasNage_103 (L1), Crossroads_113 (L2), Davielle_161 (BE1), LilSaint_169 (BE1), MkaliMitinis3_113 (L2), Navo_159 (BE1), Persimmon_161 (BE1), SoJulia_111 (L2), WhereRU_160 (BE1), Zaria_110 (L1),

Start 11:

- Found in 1 of 144 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yappy_47 (singleton),

Start 12:

- Found in 1 of 144 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cosmo_101 (V),

Start 15:

- Found in 1 of 144 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Scheme_151 (BE1),

Start 16:

- Found in 127 of 144 (88.2%) of genes in pham
- Manual Annotations of this start: 100 of 120
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Ablatia_173 (C1), Ading_173 (C1), Alice_148 (C1), Amataga_172 (C1), ArcherS7_173 (C1), Asterius_174 (C1), Astraea_167 (C1), Atlantean_171 (C1), Audrick_175 (C1), Auspice_113 (M1), Babyland_175 (C1), BackyardAgain_169 (C1), BananaFence_170 (C1), Basquiat_170 (C1), Blackbrain_168 (C1), Bonray_173 (C1), Bowman_171 (C1), Breeniome_173 (C1), Bricole_94 (M1), Burrough_174 (C1), Cactojaque_168 (C1), Capablanca_175 (C1), Catera_167 (C1), Chargie21_170 (C1), ChaylaJr_169 (C1), ChickenPhender_169 (C1), Chomp_172 (C1), CindyLou_174 (C1), Cleatunium_164 (C1), DTDevon_174 (C1), Dandelion_178 (C1), Darko_171 (C1), DeejaClivia_159 (C1), Delylah_172 (C1), Dessert_170 (C1), Dietrick_162 (C1), Domi_166 (C1), Drazdys_172 (C1), EasyJones_175 (C1), EmToTheThree_173 (C1), EmmaElysia_173 (C1), Emmetator_144 (FC), ErnieJ_166 (C1), Fixie_172 (C1), Flabslab_167 (C1), Fludd_173 (C1), Fongie_171 (C1), Gabriel_174 (C1), Gamgam_173 (C1), Ghost_171 (C1), Glaske16_97 (M1), GlutenPhree_173 (C1), HyRo_161 (C1), InigoMontoya_175 (C1), Janiyrä_176 (C1), Jessibeth14_171 (C1), Jezreel_170 (C1), Kamryn_171 (C1), Kboogie_175 (C1), Khaleesi_170 (C1), Labradorite_171 (C1), Latch_172 (C1), Lee7_170 (C1), Lethe_170 (C1), LifeSavor_170 (C1), LinStu_169 (C1), Littleton_173 (C1), Loanshark_169 (C1), LolaVince_172 (C1), LookingGlass_172 (C1), Lukilu_78 (C1), Mangeria_172 (C1), Matsumoto_170 (C1), McGee_173 (C1), McWolfish_169 (C1), Melpomini_165 (C1), Mikro_169 (C1), Moby_166 (C1), Moiqah_165 (C1), Momo_171 (C1), Naija_172 (C1), Napoleon13_169 (C1), Ngannou_169 (C1), Nidhogg_172 (C1), NoodleTree_178 (C1), Patter_172 (C1), PegLeg_96 (M1), Phlegm_176 (C1), Phusco_171 (C1), Pio_179 (C1), Pivoine_172 (C1), Pleione_174 (C1), Primadonna_167 (C1), PurduePete_171 (C1), Quasimodo_175 (C1), Rizal_166 (C1), RoMag_167 (C1), Rocha_170 (C1), Roots515_175 (C1), Sebata_172 (C1), Shelob_172 (C1), Shifa_162 (C1), Shrimp_174 (C1), SilverDipper_174 (C1), SmallFry_172 (C1), SoJulia_115 (L2), StephanieG_170 (C1), StubbySaigey_175 (C1), Tainan_174 (C1), Tortoise16_170 (C1), Trinitium_170 (C1), Turret_167 (C1), ValleyTerrace_172 (C1), Wally_171 (C1), Yassified_168 (C1), YemiJoy2021_171 (C1), Yucca_170 (C1), Zeenon_172 (C1),

Start 17:

- Found in 96 of 144 (66.7%) of genes in pham
- Manual Annotations of this start: 1 of 120
- Called 1.0% of time when present
- Phage (with cluster) where this start called: Bxz1_167 (C1),

Start 21:

- Found in 6 of 144 (4.2%) of genes in pham
- Manual Annotations of this start: 4 of 120
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Glaske16_116 (M1), LilhomieP_113 (M1), PegLeg_117 (M1), Skinny_118 (M1),

Start 22:

- Found in 1 of 144 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RoseMarie_117 (M1),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, V, FC, M1, L1, L2, C1, BE1,

Info for manual annotations of cluster BE1:

- Start number 10 was manually annotated 5 times for cluster BE1.
- Start number 15 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster C1:

- Start number 9 was manually annotated 1 time for cluster C1.
- Start number 16 was manually annotated 96 times for cluster C1.
- Start number 17 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster L1:

- Start number 10 was manually annotated 3 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 10 was manually annotated 2 times for cluster L2.

Info for manual annotations of cluster M1:

- Start number 7 was manually annotated 1 time for cluster M1.
- Start number 16 was manually annotated 4 times for cluster M1.
- Start number 21 was manually annotated 4 times for cluster M1.

Info for manual annotations of cluster V:

- Start number 12 was manually annotated 1 time for cluster V.

Gene Information:

Gene: Ablatia_173 Start: 95674, Stop: 96048, Start Num: 16

Candidate Starts for Ablatia_173:

(Start: 16 @95674 has 100 MA's), (Start: 17 @95680 has 1 MA's), (70, 96034),

Gene: Ading_173 Start: 95509, Stop: 95883, Start Num: 16

Candidate Starts for Ading_173:

(Start: 16 @95509 has 100 MA's), (Start: 17 @95515 has 1 MA's), (70, 95869),

Gene: Alice_148 Start: 90900, Stop: 91289, Start Num: 16

Candidate Starts for Alice_148:

(Start: 16 @90900 has 100 MA's), (32, 90993), (33, 91002), (41, 91062), (58, 91200), (64, 91254),

Gene: Amataga_172 Start: 93925, Stop: 94299, Start Num: 16

Candidate Starts for Amataga_172:

(Start: 16 @93925 has 100 MA's), (Start: 17 @93931 has 1 MA's), (70, 94285),

Gene: ArcherS7_173 Start: 94955, Stop: 95329, Start Num: 16

Candidate Starts for ArcherS7_173:

(Start: 16 @94955 has 100 MA's), (Start: 17 @94961 has 1 MA's), (70, 95315),

Gene: Asterius_174 Start: 94642, Stop: 95016, Start Num: 16

Candidate Starts for Asterius_174:

(Start: 16 @94642 has 100 MA's), (Start: 17 @94648 has 1 MA's), (70, 95002),

Gene: Astraea_167 Start: 94016, Stop: 94390, Start Num: 16

Candidate Starts for Astraea_167:

(Start: 16 @94016 has 100 MA's), (Start: 17 @94022 has 1 MA's), (70, 94376),

Gene: Atlantean_171 Start: 93925, Stop: 94299, Start Num: 16

Candidate Starts for Atlantean_171:

(Start: 16 @93925 has 100 MA's), (Start: 17 @93931 has 1 MA's), (70, 94285),

Gene: Audrick_175 Start: 94607, Stop: 94981, Start Num: 16

Candidate Starts for Audrick_175:

(Start: 16 @94607 has 100 MA's), (Start: 17 @94613 has 1 MA's), (70, 94967),

Gene: Auspice_113 Start: 60196, Stop: 60597, Start Num: 16

Candidate Starts for Auspice_113:

(1, 60025), (2, 60058), (3, 60112), (6, 60136), (Start: 16 @60196 has 100 MA's), (Start: 21 @60217 has 4 MA's), (24, 60232), (26, 60244), (32, 60289), (36, 60316), (47, 60391), (56, 60466), (61, 60511), (69, 60565), (71, 60589),

Gene: Babyland_175 Start: 94702, Stop: 95076, Start Num: 16

Candidate Starts for Babyland_175:

(Start: 16 @94702 has 100 MA's), (Start: 17 @94708 has 1 MA's), (70, 95062),

Gene: BackyardAgain_169 Start: 93403, Stop: 93777, Start Num: 16

Candidate Starts for BackyardAgain_169:

(Start: 16 @93403 has 100 MA's), (Start: 17 @93409 has 1 MA's), (70, 93763),

Gene: BananaFence_170 Start: 94645, Stop: 95019, Start Num: 16

Candidate Starts for BananaFence_170:

(Start: 16 @94645 has 100 MA's), (Start: 17 @94651 has 1 MA's), (70, 95005),

Gene: Basquiat_170 Start: 94229, Stop: 94603, Start Num: 16

Candidate Starts for Basquiat_170:

(Start: 16 @94229 has 100 MA's), (Start: 17 @94235 has 1 MA's), (70, 94589),

Gene: Blackbrain_168 Start: 94274, Stop: 94648, Start Num: 16

Candidate Starts for Blackbrain_168:

(Start: 16 @94274 has 100 MA's), (Start: 17 @94280 has 1 MA's), (70, 94634),

Gene: Bonray_173 Start: 95779, Stop: 96153, Start Num: 16

Candidate Starts for Bonray_173:

(Start: 16 @95779 has 100 MA's), (Start: 17 @95785 has 1 MA's), (70, 96139),

Gene: Bowman_171 Start: 95623, Stop: 95997, Start Num: 16

Candidate Starts for Bowman_171:

(Start: 16 @95623 has 100 MA's), (Start: 17 @95629 has 1 MA's), (70, 95983),

Gene: Braelyn_163 Start: 91668, Stop: 92042, Start Num: 10

Candidate Starts for Braelyn_163:

(Start: 10 @91668 has 10 MA's), (18, 91695), (20, 91707), (37, 91809), (40, 91827), (43, 91851), (66, 92019),

Gene: Breeniome_173 Start: 93968, Stop: 94342, Start Num: 16

Candidate Starts for Breeniome_173:

(Start: 16 @93968 has 100 MA's), (Start: 17 @93974 has 1 MA's), (70, 94328),

Gene: Bricole_94 Start: 56369, Stop: 56746, Start Num: 16

Candidate Starts for Bricole_94:

(Start: 7 @56309 has 1 MA's), (Start: 16 @56369 has 100 MA's), (39, 56507), (41, 56513), (46, 56555), (49, 56576), (60, 56666), (63, 56705),

Gene: Burrough_174 Start: 96182, Stop: 96556, Start Num: 16

Candidate Starts for Burrough_174:

(Start: 16 @96182 has 100 MA's), (Start: 17 @96188 has 1 MA's), (70, 96542),

Gene: Bxz1_167 Start: 97386, Stop: 97754, Start Num: 17

Candidate Starts for Bxz1_167:

(Start: 16 @97380 has 100 MA's), (Start: 17 @97386 has 1 MA's), (70, 97740),

Gene: Cactojaque_168 Start: 94249, Stop: 94623, Start Num: 16

Candidate Starts for Cactojaque_168:

(Start: 16 @94249 has 100 MA's), (Start: 17 @94255 has 1 MA's), (70, 94609),

Gene: Calm_111 Start: 62392, Stop: 62778, Start Num: 10

Candidate Starts for Calm_111:

(Start: 10 @62392 has 10 MA's), (25, 62440), (28, 62452), (29, 62458), (31, 62476), (44, 62575), (66, 62725),

Gene: Capablanca_175 Start: 96374, Stop: 96748, Start Num: 16

Candidate Starts for Capablanca_175:

(Start: 16 @96374 has 100 MA's), (Start: 17 @96380 has 1 MA's), (70, 96734),

Gene: Catera_167 Start: 93327, Stop: 93818, Start Num: 16

Candidate Starts for Catera_167:

(Start: 16 @93327 has 100 MA's), (38, 93474), (41, 93489), (59, 93648), (60, 93651), (67, 93723), (72, 93762),

Gene: Chargie21_170 Start: 94229, Stop: 94603, Start Num: 16

Candidate Starts for Chargie21_170:

(Start: 16 @94229 has 100 MA's), (Start: 17 @94235 has 1 MA's), (70, 94589),

Gene: ChaylaJr_169 Start: 94097, Stop: 94471, Start Num: 16

Candidate Starts for ChaylaJr_169:

(Start: 16 @94097 has 100 MA's), (Start: 17 @94103 has 1 MA's), (70, 94457),

Gene: ChickenPhender_169 Start: 94376, Stop: 94750, Start Num: 16

Candidate Starts for ChickenPhender_169:

(Start: 16 @94376 has 100 MA's), (Start: 17 @94382 has 1 MA's), (70, 94736),

Gene: Chomp_172 Start: 95214, Stop: 95588, Start Num: 16

Candidate Starts for Chomp_172:

(Start: 16 @95214 has 100 MA's), (Start: 17 @95220 has 1 MA's), (70, 95574),

Gene: CicholasNage_103 Start: 61458, Stop: 61826, Start Num: 10

Candidate Starts for CicholasNage_103:

(4, 61410), (8, 61437), (Start: 10 @61458 has 10 MA's), (29, 61524), (42, 61611), (44, 61641), (47, 61653), (64, 61776),

Gene: CindyLou_174 Start: 95957, Stop: 96331, Start Num: 16

Candidate Starts for CindyLou_174:

(Start: 16 @95957 has 100 MA's), (Start: 17 @95963 has 1 MA's), (70, 96317),

Gene: Cleatunium_164 Start: 93564, Stop: 94055, Start Num: 16

Candidate Starts for Cleatunium_164:

(Start: 16 @93564 has 100 MA's), (38, 93711), (41, 93726), (59, 93885), (60, 93888), (67, 93960), (72, 93999),

Gene: Cosmo_101 Start: 58504, Stop: 58896, Start Num: 12

Candidate Starts for Cosmo_101:

(Start: 12 @58504 has 1 MA's), (27, 58573), (28, 58576), (30, 58585), (32, 58603), (34, 58615), (43, 58684), (44, 58699), (46, 58705), (55, 58777),

Gene: Crossroads_113 Start: 63942, Stop: 64328, Start Num: 10

Candidate Starts for Crossroads_113:

(8, 63921), (Start: 10 @63942 has 10 MA's), (29, 64008), (31, 64026), (44, 64125), (66, 64275),

Gene: DTDevon_174 Start: 96449, Stop: 96823, Start Num: 16

Candidate Starts for DTDevon_174:

(Start: 16 @96449 has 100 MA's), (Start: 17 @96455 has 1 MA's), (70, 96809),

Gene: Dandelion_178 Start: 98582, Stop: 99073, Start Num: 16

Candidate Starts for Dandelion_178:

(Start: 16 @98582 has 100 MA's), (38, 98729), (41, 98744), (59, 98903), (60, 98906), (67, 98978), (72, 99017),

Gene: Darko_171 Start: 94649, Stop: 95023, Start Num: 16

Candidate Starts for Darko_171:

(Start: 16 @94649 has 100 MA's), (Start: 17 @94655 has 1 MA's), (70, 95009),

Gene: Davielle_161 Start: 91117, Stop: 91491, Start Num: 10

Candidate Starts for Davielle_161:

(Start: 10 @91117 has 10 MA's), (18, 91144), (20, 91156), (37, 91258), (40, 91276), (43, 91300), (66, 91468),

Gene: DeejaClivia_159 Start: 92700, Stop: 93074, Start Num: 16

Candidate Starts for DeejaClivia_159:

(Start: 16 @92700 has 100 MA's), (Start: 17 @92706 has 1 MA's), (70, 93060),

Gene: Delylah_172 Start: 94774, Stop: 95148, Start Num: 16

Candidate Starts for Delylah_172:

(Start: 16 @94774 has 100 MA's), (Start: 17 @94780 has 1 MA's), (70, 95134),

Gene: Dessert_170 Start: 93491, Stop: 93865, Start Num: 16

Candidate Starts for Dessert_170:

(Start: 16 @93491 has 100 MA's), (Start: 17 @93497 has 1 MA's), (70, 93851),

Gene: Dietrick_162 Start: 93399, Stop: 93773, Start Num: 16

Candidate Starts for Dietrick_162:

(Start: 16 @93399 has 100 MA's), (Start: 17 @93405 has 1 MA's), (70, 93759),

Gene: Domi_166 Start: 94567, Stop: 94941, Start Num: 16

Candidate Starts for Domi_166:

(Start: 16 @94567 has 100 MA's), (Start: 17 @94573 has 1 MA's), (70, 94927),

Gene: Drazdys_172 Start: 94992, Stop: 95366, Start Num: 16

Candidate Starts for Drazdys_172:

(Start: 16 @94992 has 100 MA's), (Start: 17 @94998 has 1 MA's), (70, 95352),

Gene: EasyJones_175 Start: 94911, Stop: 95285, Start Num: 16

Candidate Starts for EasyJones_175:

(Start: 16 @94911 has 100 MA's), (Start: 17 @94917 has 1 MA's), (70, 95271),

Gene: EmToTheThree_173 Start: 95871, Stop: 96245, Start Num: 16

Candidate Starts for EmToTheThree_173:

(Start: 16 @95871 has 100 MA's), (Start: 17 @95877 has 1 MA's), (70, 96231),

Gene: EmmaElysia_173 Start: 94922, Stop: 95296, Start Num: 16

Candidate Starts for EmmaElysia_173:

(Start: 16 @94922 has 100 MA's), (Start: 17 @94928 has 1 MA's), (70, 95282),

Gene: Emmetator_144 Start: 99796, Stop: 100254, Start Num: 16

Candidate Starts for Emmetator_144:

(Start: 16 @99796 has 100 MA's), (19, 99814), (23, 99826), (45, 99991), (65, 100177), (72, 100234),

Gene: ErnieJ_166 Start: 93651, Stop: 94025, Start Num: 16

Candidate Starts for ErnieJ_166:

(Start: 16 @93651 has 100 MA's), (Start: 17 @93657 has 1 MA's), (70, 94011),

Gene: Fixie_172 Start: 94600, Stop: 94974, Start Num: 16

Candidate Starts for Fixie_172:

(Start: 16 @94600 has 100 MA's), (Start: 17 @94606 has 1 MA's), (70, 94960),

Gene: Flabslab_167 Start: 93233, Stop: 93607, Start Num: 16

Candidate Starts for Flabslab_167:

(Start: 16 @93233 has 100 MA's), (Start: 17 @93239 has 1 MA's), (70, 93593),

Gene: Fludd_173 Start: 95184, Stop: 95558, Start Num: 16

Candidate Starts for Fludd_173:

(Start: 16 @95184 has 100 MA's), (Start: 17 @95190 has 1 MA's), (70, 95544),

Gene: Fongie_171 Start: 94806, Stop: 95180, Start Num: 16

Candidate Starts for Fongie_171:

(Start: 16 @94806 has 100 MA's), (Start: 17 @94812 has 1 MA's), (70, 95166),

Gene: Gabriel_174 Start: 93942, Stop: 94316, Start Num: 16

Candidate Starts for Gabriel_174:

(Start: 16 @93942 has 100 MA's), (Start: 17 @93948 has 1 MA's), (70, 94302),

Gene: Gamgam_173 Start: 93915, Stop: 94289, Start Num: 16

Candidate Starts for Gamgam_173:

(Start: 16 @93915 has 100 MA's), (Start: 17 @93921 has 1 MA's), (70, 94275),

Gene: Ghost_171 Start: 94628, Stop: 95002, Start Num: 16

Candidate Starts for Ghost_171:

(Start: 16 @94628 has 100 MA's), (Start: 17 @94634 has 1 MA's), (70, 94988),

Gene: Glaske16_97 Start: 56773, Stop: 57150, Start Num: 16

Candidate Starts for Glaske16_97:

(Start: 7 @56713 has 1 MA's), (Start: 16 @56773 has 100 MA's), (39, 56911), (41, 56917), (46, 56959), (49, 56980), (60, 57070), (63, 57109),

Gene: Glaske16_116 Start: 60940, Stop: 61320, Start Num: 21

Candidate Starts for Glaske16_116:

(1, 60748), (2, 60781), (3, 60835), (6, 60859), (Start: 16 @60919 has 100 MA's), (Start: 21 @60940 has 4 MA's), (24, 60955), (26, 60967), (32, 61012), (36, 61039), (47, 61114), (56, 61189), (61, 61234), (69, 61288), (71, 61312),

Gene: GlutenPhree_173 Start: 93925, Stop: 94299, Start Num: 16

Candidate Starts for GlutenPhree_173:

(Start: 16 @93925 has 100 MA's), (Start: 17 @93931 has 1 MA's), (70, 94285),

Gene: HyRo_161 Start: 94254, Stop: 94628, Start Num: 16

Candidate Starts for HyRo_161:

(Start: 16 @94254 has 100 MA's), (Start: 17 @94260 has 1 MA's), (70, 94614),

Gene: InigoMontoya_175 Start: 94589, Stop: 94963, Start Num: 16

Candidate Starts for InigoMontoya_175:

(Start: 16 @94589 has 100 MA's), (Start: 17 @94595 has 1 MA's), (70, 94949),

Gene: Janiyr_176 Start: 95606, Stop: 95980, Start Num: 16

Candidate Starts for Janiyr_176:

(Start: 16 @95606 has 100 MA's), (Start: 17 @95612 has 1 MA's), (70, 95966),

Gene: Jessibeth14_171 Start: 95454, Stop: 95828, Start Num: 16

Candidate Starts for Jessibeth14_171:

(Start: 16 @95454 has 100 MA's), (Start: 17 @95460 has 1 MA's), (70, 95814),

Gene: Jezreel_170 Start: 95041, Stop: 95532, Start Num: 16

Candidate Starts for Jezreel_170:

(Start: 16 @95041 has 100 MA's), (38, 95188), (41, 95203), (59, 95362), (60, 95365), (67, 95437), (72, 95476),

Gene: Kamryn_171 Start: 95693, Stop: 96184, Start Num: 16

Candidate Starts for Kamryn_171:

(Start: 16 @95693 has 100 MA's), (38, 95840), (41, 95855), (59, 96014), (60, 96017), (67, 96089), (72, 96128),

Gene: Kboogie_175 Start: 94611, Stop: 94985, Start Num: 16

Candidate Starts for Kboogie_175:

(Start: 16 @94611 has 100 MA's), (Start: 17 @94617 has 1 MA's), (70, 94971),

Gene: Khaleesi_170 Start: 94921, Stop: 95295, Start Num: 16

Candidate Starts for Khaleesi_170:

(Start: 16 @94921 has 100 MA's), (Start: 17 @94927 has 1 MA's), (70, 95281),

Gene: KleverKiS_96 Start: 57084, Stop: 57521, Start Num: 7

Candidate Starts for KleverKiS_96:

(Start: 7 @57084 has 1 MA's), (Start: 16 @57144 has 100 MA's), (39, 57282), (41, 57288), (46, 57330), (49, 57351), (60, 57441), (63, 57480),

Gene: KleverKiS_115 Start: 61231, Stop: 61692, Start Num: 6

Candidate Starts for KleverKiS_115:

(1, 61120), (2, 61153), (3, 61207), (6, 61231), (Start: 16 @61291 has 100 MA's), (Start: 21 @61312 has 4 MA's), (24, 61327), (26, 61339), (32, 61384), (36, 61411), (47, 61486), (56, 61561), (61, 61606), (69, 61660), (71, 61684),

Gene: Labradorite_171 Start: 93613, Stop: 93987, Start Num: 16

Candidate Starts for Labradorite_171:

(Start: 16 @93613 has 100 MA's), (Start: 17 @93619 has 1 MA's), (70, 93973),

Gene: Latch_172 Start: 93925, Stop: 94299, Start Num: 16

Candidate Starts for Latch_172:

(Start: 16 @93925 has 100 MA's), (Start: 17 @93931 has 1 MA's), (70, 94285),

Gene: Lee7_170 Start: 96301, Stop: 96675, Start Num: 16

Candidate Starts for Lee7_170:

(Start: 16 @96301 has 100 MA's), (Start: 17 @96307 has 1 MA's), (70, 96661),

Gene: Lethe_170 Start: 95191, Stop: 95682, Start Num: 16

Candidate Starts for Lethe_170:

(Start: 16 @95191 has 100 MA's), (38, 95338), (41, 95353), (59, 95512), (60, 95515), (67, 95587), (72, 95626),

Gene: LifeSavor_170 Start: 94834, Stop: 95208, Start Num: 16

Candidate Starts for LifeSavor_170:

(Start: 16 @94834 has 100 MA's), (Start: 17 @94840 has 1 MA's), (70, 95194),

Gene: LilSaint_169 Start: 89837, Stop: 90211, Start Num: 10

Candidate Starts for LilSaint_169:

(Start: 10 @89837 has 10 MA's), (18, 89864), (20, 89876), (37, 89978), (40, 89996), (43, 90020), (66, 90188),

Gene: LilhomieP_113 Start: 61111, Stop: 61491, Start Num: 21

Candidate Starts for LilhomieP_113:

(1, 60919), (2, 60952), (3, 61006), (6, 61030), (Start: 16 @61090 has 100 MA's), (Start: 21 @61111 has 4 MA's), (24, 61126), (26, 61138), (32, 61183), (36, 61210), (47, 61285), (56, 61360), (61, 61405), (69, 61459), (71, 61483),

Gene: LinStu_169 Start: 94979, Stop: 95353, Start Num: 16

Candidate Starts for LinStu_169:

(Start: 16 @94979 has 100 MA's), (Start: 17 @94985 has 1 MA's), (70, 95339),

Gene: Littleton_173 Start: 95085, Stop: 95459, Start Num: 16

Candidate Starts for Littleton_173:

(Start: 16 @95085 has 100 MA's), (Start: 17 @95091 has 1 MA's), (70, 95445),

Gene: Loanshark_169 Start: 94795, Stop: 95169, Start Num: 16
Candidate Starts for Loanshark_169:
(Start: 16 @94795 has 100 MA's), (Start: 17 @94801 has 1 MA's), (70, 95155),

Gene: LolaVınca_172 Start: 96204, Stop: 96578, Start Num: 16
Candidate Starts for LolaVınca_172:
(Start: 16 @96204 has 100 MA's), (Start: 17 @96210 has 1 MA's), (70, 96564),

Gene: LookingGlass_172 Start: 95021, Stop: 95512, Start Num: 16
Candidate Starts for LookingGlass_172:
(Start: 16 @95021 has 100 MA's), (38, 95168), (41, 95183), (59, 95342), (60, 95345), (67, 95417), (72, 95456),

Gene: Lukilu_78 Start: 31246, Stop: 30839, Start Num: 16
Candidate Starts for Lukilu_78:
(Start: 16 @31246 has 100 MA's), (26, 31198), (31, 31156), (49, 31036), (53, 30994), (57, 30970),

Gene: Mangeria_172 Start: 95675, Stop: 96166, Start Num: 16
Candidate Starts for Mangeria_172:
(Start: 16 @95675 has 100 MA's), (38, 95822), (41, 95837), (59, 95996), (60, 95999), (67, 96071), (72, 96110),

Gene: Matsumoto_170 Start: 94599, Stop: 94973, Start Num: 16
Candidate Starts for Matsumoto_170:
(Start: 16 @94599 has 100 MA's), (Start: 17 @94605 has 1 MA's), (70, 94959),

Gene: McGee_173 Start: 94353, Stop: 94727, Start Num: 16
Candidate Starts for McGee_173:
(Start: 16 @94353 has 100 MA's), (Start: 17 @94359 has 1 MA's), (70, 94713),

Gene: McWolfish_169 Start: 94692, Stop: 95066, Start Num: 16
Candidate Starts for McWolfish_169:
(Start: 16 @94692 has 100 MA's), (Start: 17 @94698 has 1 MA's), (70, 95052),

Gene: Melpomini_165 Start: 92899, Stop: 93273, Start Num: 16
Candidate Starts for Melpomini_165:
(Start: 16 @92899 has 100 MA's), (Start: 17 @92905 has 1 MA's), (70, 93259),

Gene: Mikro_169 Start: 96317, Stop: 96808, Start Num: 16
Candidate Starts for Mikro_169:
(Start: 16 @96317 has 100 MA's), (38, 96464), (41, 96479), (59, 96638), (60, 96641), (67, 96713), (72, 96752),

Gene: MkaliMitinis3_113 Start: 63922, Stop: 64308, Start Num: 10
Candidate Starts for MkaliMitinis3_113:
(8, 63901), (Start: 10 @63922 has 10 MA's), (29, 63988), (31, 64006), (44, 64105), (66, 64255),

Gene: Moby_166 Start: 93249, Stop: 93623, Start Num: 16
Candidate Starts for Moby_166:
(Start: 16 @93249 has 100 MA's), (Start: 17 @93255 has 1 MA's), (70, 93609),

Gene: Moiqah_165 Start: 93226, Stop: 93600, Start Num: 16
Candidate Starts for Moiqah_165:

(Start: 16 @93226 has 100 MA's), (Start: 17 @93232 has 1 MA's), (70, 93586),

Gene: Momo_171 Start: 93925, Stop: 94299, Start Num: 16

Candidate Starts for Momo_171:

(Start: 16 @93925 has 100 MA's), (Start: 17 @93931 has 1 MA's), (70, 94285),

Gene: Naija_172 Start: 94628, Stop: 95002, Start Num: 16

Candidate Starts for Naija_172:

(Start: 16 @94628 has 100 MA's), (Start: 17 @94634 has 1 MA's), (70, 94988),

Gene: Napoleon13_169 Start: 93888, Stop: 94262, Start Num: 16

Candidate Starts for Napoleon13_169:

(Start: 16 @93888 has 100 MA's), (Start: 17 @93894 has 1 MA's), (70, 94248),

Gene: Navo_159 Start: 91049, Stop: 91423, Start Num: 10

Candidate Starts for Navo_159:

(Start: 10 @91049 has 10 MA's), (18, 91076), (20, 91088), (37, 91190), (40, 91208), (43, 91232), (66, 91400),

Gene: Ngannou_169 Start: 92907, Stop: 93281, Start Num: 16

Candidate Starts for Ngannou_169:

(Start: 16 @92907 has 100 MA's), (Start: 17 @92913 has 1 MA's), (70, 93267),

Gene: Nidhogg_172 Start: 95203, Stop: 95577, Start Num: 16

Candidate Starts for Nidhogg_172:

(Start: 16 @95203 has 100 MA's), (Start: 17 @95209 has 1 MA's), (70, 95563),

Gene: NoodleTree_178 Start: 95068, Stop: 95559, Start Num: 16

Candidate Starts for NoodleTree_178:

(Start: 16 @95068 has 100 MA's), (38, 95215), (41, 95230), (59, 95389), (60, 95392), (67, 95464), (72, 95503),

Gene: Patter_172 Start: 93942, Stop: 94316, Start Num: 16

Candidate Starts for Patter_172:

(Start: 16 @93942 has 100 MA's), (Start: 17 @93948 has 1 MA's), (70, 94302),

Gene: PegLeg_117 Start: 60989, Stop: 61369, Start Num: 21

Candidate Starts for PegLeg_117:

(1, 60797), (2, 60830), (3, 60884), (6, 60908), (Start: 16 @60968 has 100 MA's), (Start: 21 @60989 has 4 MA's), (24, 61004), (26, 61016), (32, 61061), (36, 61088), (47, 61163), (56, 61238), (61, 61283), (69, 61337), (71, 61361),

Gene: PegLeg_96 Start: 56344, Stop: 56721, Start Num: 16

Candidate Starts for PegLeg_96:

(Start: 7 @56284 has 1 MA's), (Start: 16 @56344 has 100 MA's), (39, 56482), (41, 56488), (46, 56530), (49, 56551), (60, 56641), (63, 56680),

Gene: Persimmon_161 Start: 90365, Stop: 90739, Start Num: 10

Candidate Starts for Persimmon_161:

(Start: 10 @90365 has 10 MA's), (18, 90392), (20, 90404), (37, 90506), (40, 90524), (43, 90548), (66, 90716),

Gene: Phlegm_176 Start: 94628, Stop: 95002, Start Num: 16

Candidate Starts for Phlegm_176:

(Start: 16 @94628 has 100 MA's), (Start: 17 @94634 has 1 MA's), (70, 94988),

Gene: Phusco_171 Start: 94252, Stop: 94626, Start Num: 16

Candidate Starts for Phusco_171:

(Start: 16 @94252 has 100 MA's), (Start: 17 @94258 has 1 MA's), (70, 94612),

Gene: Pio_179 Start: 98036, Stop: 98410, Start Num: 16

Candidate Starts for Pio_179:

(Start: 16 @98036 has 100 MA's), (Start: 17 @98042 has 1 MA's), (70, 98396),

Gene: Pivoine_172 Start: 94628, Stop: 95002, Start Num: 16

Candidate Starts for Pivoine_172:

(Start: 16 @94628 has 100 MA's), (Start: 17 @94634 has 1 MA's), (70, 94988),

Gene: Pleione_174 Start: 95152, Stop: 95526, Start Num: 16

Candidate Starts for Pleione_174:

(Start: 16 @95152 has 100 MA's), (Start: 17 @95158 has 1 MA's), (70, 95512),

Gene: Poochiewood_104 Start: 62243, Stop: 62659, Start Num: 4

Candidate Starts for Poochiewood_104:

(4, 62243), (8, 62270), (Start: 10 @62291 has 10 MA's), (29, 62357), (42, 62444), (44, 62474), (47, 62486), (64, 62609),

Gene: Primadonna_167 Start: 94276, Stop: 94650, Start Num: 16

Candidate Starts for Primadonna_167:

(Start: 16 @94276 has 100 MA's), (Start: 17 @94282 has 1 MA's), (70, 94636),

Gene: PurduePete_171 Start: 95379, Stop: 95753, Start Num: 16

Candidate Starts for PurduePete_171:

(Start: 16 @95379 has 100 MA's), (Start: 17 @95385 has 1 MA's), (70, 95739),

Gene: Quasimodo_175 Start: 96046, Stop: 96420, Start Num: 16

Candidate Starts for Quasimodo_175:

(Start: 16 @96046 has 100 MA's), (Start: 17 @96052 has 1 MA's), (70, 96406),

Gene: Rabinovish_81 Start: 31385, Stop: 31834, Start Num: 9

Candidate Starts for Rabinovish_81:

(Start: 9 @31385 has 1 MA's), (13, 31412), (Start: 16 @31421 has 100 MA's), (47, 31616), (51, 31652), (52, 31655), (53, 31673), (57, 31694), (60, 31721),

Gene: Rizal_166 Start: 93071, Stop: 93562, Start Num: 16

Candidate Starts for Rizal_166:

(Start: 16 @93071 has 100 MA's), (38, 93218), (41, 93233), (59, 93392), (60, 93395), (67, 93467), (72, 93506),

Gene: RoMag_167 Start: 95115, Stop: 95606, Start Num: 16

Candidate Starts for RoMag_167:

(Start: 16 @95115 has 100 MA's), (38, 95262), (41, 95277), (59, 95436), (60, 95439), (67, 95511), (72, 95550),

Gene: Rocha_170 Start: 94425, Stop: 94799, Start Num: 16

Candidate Starts for Rocha_170:

(Start: 16 @94425 has 100 MA's), (Start: 17 @94431 has 1 MA's), (70, 94785),

Gene: Roots515_175 Start: 96466, Stop: 96840, Start Num: 16

Candidate Starts for Roots515_175:

(Start: 16 @96466 has 100 MA's), (Start: 17 @96472 has 1 MA's), (70, 96826),

Gene: RoseMarie_117 Start: 63561, Stop: 63914, Start Num: 22

Candidate Starts for RoseMarie_117:

(5, 63471), (14, 63537), (22, 63561), (27, 63591), (47, 63729), (52, 63768), (55, 63792), (62, 63840), (66, 63867),

Gene: Scheme_151 Start: 90296, Stop: 90724, Start Num: 15

Candidate Starts for Scheme_151:

(Start: 15 @90296 has 1 MA's), (19, 90317), (23, 90329), (39, 90455), (61, 90641),

Gene: Sebata_172 Start: 96156, Stop: 96530, Start Num: 16

Candidate Starts for Sebata_172:

(Start: 16 @96156 has 100 MA's), (Start: 17 @96162 has 1 MA's), (70, 96516),

Gene: Shelob_172 Start: 96186, Stop: 96560, Start Num: 16

Candidate Starts for Shelob_172:

(Start: 16 @96186 has 100 MA's), (Start: 17 @96192 has 1 MA's), (70, 96546),

Gene: Shifa_162 Start: 94223, Stop: 94597, Start Num: 16

Candidate Starts for Shifa_162:

(Start: 16 @94223 has 100 MA's), (Start: 17 @94229 has 1 MA's), (70, 94583),

Gene: Shrimp_174 Start: 95689, Stop: 96063, Start Num: 16

Candidate Starts for Shrimp_174:

(Start: 16 @95689 has 100 MA's), (Start: 17 @95695 has 1 MA's), (70, 96049),

Gene: SilverDipper_174 Start: 94624, Stop: 94998, Start Num: 16

Candidate Starts for SilverDipper_174:

(Start: 16 @94624 has 100 MA's), (Start: 17 @94630 has 1 MA's), (70, 94984),

Gene: Skinny_118 Start: 61708, Stop: 62088, Start Num: 21

Candidate Starts for Skinny_118:

(1, 61516), (2, 61549), (3, 61603), (6, 61627), (Start: 16 @61687 has 100 MA's), (Start: 21 @61708 has 4 MA's), (24, 61723), (26, 61735), (32, 61780), (36, 61807), (47, 61882), (56, 61957), (61, 62002), (69, 62056), (71, 62080),

Gene: SlimJimmy_96 Start: 57692, Stop: 58129, Start Num: 7

Candidate Starts for SlimJimmy_96:

(Start: 7 @57692 has 1 MA's), (Start: 16 @57752 has 100 MA's), (39, 57890), (41, 57896), (46, 57938), (49, 57959), (60, 58049), (63, 58088),

Gene: SmallFry_172 Start: 94215, Stop: 94589, Start Num: 16

Candidate Starts for SmallFry_172:

(Start: 16 @94215 has 100 MA's), (Start: 17 @94221 has 1 MA's), (70, 94575),

Gene: SoJulia_115 Start: 65745, Stop: 66128, Start Num: 16

Candidate Starts for SoJulia_115:

(Start: 16 @65745 has 100 MA's), (49, 65955), (50, 65958), (53, 65997), (60, 66045),

Gene: SoJulia_111 Start: 65168, Stop: 65554, Start Num: 10

Candidate Starts for SoJulia_111:

(8, 65144), (Start: 10 @65168 has 10 MA's), (29, 65234), (31, 65252), (44, 65351), (66, 65501),

Gene: StephanieG_170 Start: 95942, Stop: 96433, Start Num: 16

Candidate Starts for StephanieG_170:

(Start: 16 @95942 has 100 MA's), (38, 96089), (41, 96104), (59, 96263), (60, 96266), (67, 96338), (72, 96377),

Gene: StubbySaigey_175 Start: 94158, Stop: 94532, Start Num: 16

Candidate Starts for StubbySaigey_175:

(Start: 16 @94158 has 100 MA's), (Start: 17 @94164 has 1 MA's), (70, 94518),

Gene: Tainan_174 Start: 95500, Stop: 95991, Start Num: 16

Candidate Starts for Tainan_174:

(Start: 16 @95500 has 100 MA's), (38, 95647), (41, 95662), (59, 95821), (60, 95824), (67, 95896), (72, 95935),

Gene: Tortoise16_170 Start: 94858, Stop: 95232, Start Num: 16

Candidate Starts for Tortoise16_170:

(Start: 16 @94858 has 100 MA's), (Start: 17 @94864 has 1 MA's), (70, 95218),

Gene: Trinitium_170 Start: 94551, Stop: 94925, Start Num: 16

Candidate Starts for Trinitium_170:

(Start: 16 @94551 has 100 MA's), (Start: 17 @94557 has 1 MA's), (70, 94911),

Gene: Turret_167 Start: 94133, Stop: 94507, Start Num: 16

Candidate Starts for Turret_167:

(Start: 16 @94133 has 100 MA's), (Start: 17 @94139 has 1 MA's), (70, 94493),

Gene: ValleyTerrace_172 Start: 93925, Stop: 94299, Start Num: 16

Candidate Starts for ValleyTerrace_172:

(Start: 16 @93925 has 100 MA's), (Start: 17 @93931 has 1 MA's), (70, 94285),

Gene: Wally_171 Start: 94141, Stop: 94515, Start Num: 16

Candidate Starts for Wally_171:

(Start: 16 @94141 has 100 MA's), (Start: 17 @94147 has 1 MA's), (70, 94501),

Gene: WhereRU_160 Start: 91117, Stop: 91491, Start Num: 10

Candidate Starts for WhereRU_160:

(Start: 10 @91117 has 10 MA's), (18, 91144), (20, 91156), (37, 91258), (40, 91276), (43, 91300), (66, 91468),

Gene: Yappy_47 Start: 10118, Stop: 10504, Start Num: 11

Candidate Starts for Yappy_47:

(Start: 11 @10118 has 1 MA's), (30, 10193), (35, 10232), (48, 10331), (54, 10373), (66, 10460), (68, 10472),

Gene: Yassified_168 Start: 93839, Stop: 94213, Start Num: 16

Candidate Starts for Yassified_168:

(Start: 16 @93839 has 100 MA's), (Start: 17 @93845 has 1 MA's), (70, 94199),

Gene: YemiJoy2021_171 Start: 95286, Stop: 95777, Start Num: 16

Candidate Starts for YemiJoy2021_171:

(Start: 16 @95286 has 100 MA's), (38, 95433), (41, 95448), (59, 95607), (60, 95610), (67, 95682), (72, 95721),

Gene: Yucca_170 Start: 94885, Stop: 95259, Start Num: 16

Candidate Starts for Yucca_170:

(Start: 16 @94885 has 100 MA's), (Start: 17 @94891 has 1 MA's), (70, 95245),

Gene: Zaria_110 Start: 61857, Stop: 62243, Start Num: 10

Candidate Starts for Zaria_110:

(Start: 10 @61857 has 10 MA's), (25, 61905), (28, 61917), (29, 61923), (31, 61941), (44, 62040), (66, 62190),

Gene: Zeenon_172 Start: 94971, Stop: 95345, Start Num: 16

Candidate Starts for Zeenon_172:

(Start: 16 @94971 has 100 MA's), (Start: 17 @94977 has 1 MA's), (70, 95331),