





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 290817 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290817 has 232 members, 39 are drafts.

Phages represented in each track:

- Track 1 : Settecandela\_2, Phrappuccino\_2
- Track 2 : JPickles\_251, Blackbrain\_252, Basquiat\_251, Cactojaque\_248, JustHall\_247, ChaylaJr\_252, ChickenPhender\_249, Charge21\_251, EasyJones\_254, Morizzled23\_251, Wally\_251, Matsumoto\_251, Essence\_251
- Track 3 : Ghost\_253, Gamgam\_255, GlutenPhree\_254, Pivoine\_254, Jedediah\_255, CindyLou\_254, Audrick\_256, Willis\_254, Latch\_253, ValleyTerrace\_254, Atlantean\_253, YoungMoneyMata\_253, Fludd\_253, Amataga\_254, Naija\_254, Phlegm\_258, Ngannou\_248, Jemmno\_253, Babyland\_256, InigoMontoya\_257, Ading\_256, SilverDipper\_258, Dessert\_250, Substance289\_249, Quasimodo\_256, Momo\_255
- Track 4 : Grungle\_235, Koguma\_252, FrayBell\_256, Izajani\_249, Issimir\_247, Mikro\_247, Pupusa\_256, PharkleMinkus\_257, LolaVinca\_249, ZygoTaiga\_250, Cleatunium\_247, Bowman\_252, Iota\_250, LordLeafolot\_254, Specks\_258, Tainan\_253, Nidhogg\_254, NoodleTree\_249, Halldule\_245, InterFolia\_255, Lee7\_254, Labradorite\_250
- Track 5 : StubbySaigey\_260, Dietrick\_242, ScottMcG\_245, Melpomini\_248, Kboogie\_257, Ablatia\_253, Janiyra\_257, Napoleon13\_250, BackyardAgain\_248, BobaPhatt\_246, Turret\_244, Catera\_242, McGee\_255, Littleton\_257, EmmaElysia\_258, Trinitium\_250
- Track 6 : LinStu\_250
- Track 7 : Blackdragon\_248
- Track 8 : Spud\_245, Spec\_247, Drazdys\_250, ArcherS7\_254, LRRHood\_245, Phusco\_252, Sprinklers\_251, Jaygup\_250, Breeniome\_253, Capablanca\_258, Shaqato\_244, Derek\_249, Flabslab\_248, Naval22\_258, Rahel\_255, SmallFry\_254, Rizal\_242, Gabriel\_256, CharlieB\_248, LifeSavor\_254
- Track 9 : JulietS\_242, Yassified\_249, Ronan\_249, ET08\_239, Duckfeet\_247
- Track 10 : Ewok\_252, EmToTheThree\_254, Demodog\_261, Daffodil\_259, Loanshark\_250, DTDevon\_254, Bangla1971\_254, TinyTim\_252, Roots515\_256, Delylah\_255, Erdmann\_255, Dandelion\_259, JigglyPuff\_259, OrediggerDelux\_250, NedWong\_252, FudgeTart\_249, Adlitam\_253, ShiaLabeouf\_251, Pio\_260, MoMoMixon\_249, Burrough\_254, DrPhinkDaddy\_250, Nappy\_252, Tortoise16\_251, Zeenon\_254, Megamind\_250, Gizmo\_259, Bread\_250, Yucca\_254, Concombre\_259, Ava3\_250, MikeLiesIn\_254, ParkTD\_252, Shelob\_254, Bipolarisk\_251, Delilah\_251, FoxtrotP1\_252, Maby2021\_254, Zalkecks\_252, Norm\_253, Tyke\_250, Phox\_254, Shnickers\_252, Salacia\_255, Fongie\_253, Bxz1\_239, YemiJoy2021\_254, Caravan\_243, SrishMeg2525\_251, Asterius\_254, Pleione\_257
- Track 11 : Lunareta\_250, Montpel\_250

- Track 12 : Pier\_252
- Track 13 : IkeLoa\_247, Kamryn\_252, LookingGlass\_251, Lukilu\_242, BadAgartude\_247, RoMag\_248, StephanieG\_247
- Track 14 : Shifa\_229, Moby\_250, Moiqah\_249, Sebata\_253, HyRo\_238, JayJay\_253
- Track 15 : Bigswole\_258, Lethe\_251, Bezza\_241, Guwapp\_249, BeanWater\_246
- Track 16 : Darko\_253, Mangeria\_253, BananaFence\_251
- Track 17 : PurduePete\_254, Jessibeth14\_253, McWolfish\_250, Khaleesi\_252, SVoro\_248
- Track 18 : Colt\_244
- Track 19 : Grasshills\_260, BigCity\_261, EggyFarm\_261
- Track 20 : Jezreel\_250
- Track 21 : DeejaClivia\_240
- Track 22 : Cali\_243
- Track 23 : Sauce\_250, QBert\_245
- Track 24 : Cane17\_243
- Track 25 : Rocha\_249, Astraea\_249, Primadonna\_249
- Track 26 : Stubby\_236, Alice\_239
- Track 27 : NuevoMundo\_255
- Track 28 : Domi\_247
- Track 29 : Patter\_255
- Track 30 : Fixie\_254
- Track 31 : l3\_263
- Track 32 : Bonray\_256
- Track 33 : Tonenili\_275
- Track 34 : Pinkcreek\_233
- Track 35 : Belieber\_247
- Track 36 : DirtMonster\_242
- Track 37 : Blubba\_241
- Track 38 : ErnieJ\_247
- Track 39 : Vortrix\_272
- Track 40 : Rabinovish\_246
- Track 41 : Shrimp\_256
- Track 42 : Maturis\_247
- Track 43 : Chomp\_252
- Track 44 : Teardrop\_252
- Track 45 : ScoobyDoobyDoo\_242
- Track 46 : Greely\_254
- Track 47 : Myrna\_246
- Track 48 : Phabba\_256
- Track 49 : CherryTomatoes\_175
- Track 50 : Pupper\_174, SCentae\_173
- Track 51 : Skog\_6
- Track 52 : Stormageddon\_1, RedWattleHog\_1
- Track 53 : Finch\_1
- Track 54 : JeanGrey\_1
- Track 55 : E3\_gp5

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

The start number called the most often in the published annotations is 10, it was called in 182 of the 193 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia\_253, Ading\_256, Adlitam\_253, Alice\_239, Amataga\_254, ArcherS7\_254, Asterius\_254, Astraea\_249, Atlantean\_253, Audrick\_256, Ava3\_250, Babyland\_256, BackyardAgain\_248, BadAgartude\_247, BananaFence\_251, Bangla1971\_254, Basquiat\_251, BeanWater\_246, Belieber\_247, Bezza\_241, BigCity\_261, Bigswole\_258, Bipolarisk\_251, Blackbrain\_252, Blackdragon\_248, Blubba\_241, BobaPhatt\_246, Bonray\_256, Bowman\_252, Bread\_250, Breeniome\_253, Burrough\_254, Bxz1\_239, Cactojaque\_248, Cali\_243, Cane17\_243, Capablanca\_258, Caravan\_243, Catera\_242, Chargie21\_251, CharlieB\_248, ChaylaJr\_252, ChickenPhender\_249, Chomp\_252, CindyLou\_254, Cleatunium\_247, Colt\_244, Concombre\_259, DTDevon\_254, Daffodil\_259, Dandelion\_259, Darko\_253, DeejaClivia\_240, Delilah\_251, Delylah\_255, Demodog\_261, Derek\_249, Dessert\_250, Dietrick\_242, DirtMonster\_242, Domi\_247, DrPhinkDaddy\_250, Drazdys\_250, Duckfeet\_247, ET08\_239, EasyJones\_254, EggyFarm\_261, EmToTheThree\_254, EmmaElysia\_258, Erdmann\_255, ErnieJ\_247, Essence\_251, Ewok\_252, Fixie\_254, Flabslab\_248, Fludd\_253, Fongie\_253, FoxtrotP1\_252, FrayBell\_256, FudgeTart\_249, Gabriel\_256, Gamgam\_255, Ghost\_253, Gizmo\_259, GlutenPhree\_254, Grasshills\_260, Greely\_254, Grungle\_235, Guwapp\_249, Halldule\_245, HyRo\_238, I3\_263, IkeLoa\_247, InigoMontoya\_257, InterFolia\_255, Iota\_250, Issimir\_247, Izajani\_249, JPickles\_251, Janiyra\_257, JayJay\_253, Jaygup\_250, JeanGrey\_1, Jedediah\_255, Jemmno\_253, Jessibeth14\_253, JigglyPuff\_259, JulietS\_242, JustHall\_247, Kamryn\_252, Kboogie\_257, Khaleesi\_252, Koguma\_252, LRRHood\_245, Labradorite\_250, Latch\_253, Lee7\_254, Lethe\_251, LifeSavor\_254, LinStu\_250, Littleton\_257, Loanshark\_250, LolaVinca\_249, LookingGlass\_251, LordLeafolot\_254, Lukilu\_242, Lunareta\_250, Maby2021\_254, Mangeria\_253, Matsumoto\_251, Maturis\_247, McGee\_255, McWolfish\_250, Megamind\_250, Melpomini\_248, MikeLiesIn\_254, Mikro\_247, MoMoMixon\_249, Moby\_250, Moiqah\_249, Momo\_255, Montpel\_250, Morizzled23\_251, Myrna\_246, Naija\_254, Napoleon13\_250, Nappy\_252, Naval22\_258, NedWong\_252, Ngannou\_248, Nidhogg\_254, NoodleTree\_249, Norm\_253, NuevoMundo\_255, OrediggerDelux\_250, ParkTD\_252, Patter\_255, Phabba\_256, PharkleMinkus\_257, Phlegm\_258, Phox\_254, Phusco\_252, Pier\_252, Pinkcreek\_233, Pio\_260, Pivoine\_254, Pleione\_257, Primadonna\_249, Pupusa\_256, PurduePete\_254, QBert\_245, Quasimodo\_256, Rabinovish\_246, Rahel\_255, Rizal\_242, RoMag\_248, Rocha\_249, Ronan\_249, Roots515\_256, SVoro\_248, Salacia\_255, Sauce\_250, ScoobyDoobyDoo\_242, ScottMcG\_245, Sebata\_253, Shaqnato\_244, Shelob\_254, ShiaLabeouf\_251, Shifa\_229, Shnickers\_252, Shrimp\_256, SilverDipper\_258, SmallFry\_254, Spec\_247, Specks\_258, Sprinklers\_251, Spud\_245, SrishMeg2525\_251, StephanieG\_247, StubbySaigey\_260, Stubby\_236, Substance289\_249, Tainan\_253, Teardrop\_252, TinyTim\_252, Tortoise16\_251, Trinitium\_250, Turret\_244, Tyke\_250, ValleyTerrace\_254, Wally\_251, Willis\_254, Yassified\_249, YemiJoy2021\_254, YoungMoneyMata\_253, Yucca\_254, Zalkecks\_252, Zeenon\_254, ZygoTaiga\_250,

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

- Jezreel\_250,

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

- CherryTomatoes\_175, E3\_gp5, Finch\_1, Phrappuccino\_2, Pupper\_174, RedWattleHog\_1, SCentae\_173, Settecandela\_2, Skog\_6, Stormageddon\_1,

Tonenili\_275, Vortrix\_272,

### Summary by start number:

#### Start 7:

- Found in 2 of 232 ( 0.9% ) of genes in pham
- Manual Annotations of this start: 2 of 193
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino\_2 (AA), Settecandela\_2 (AA),

#### Start 8:

- Found in 2 of 232 ( 0.9% ) of genes in pham
- Manual Annotations of this start: 2 of 193
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RedWattleHog\_1 (DX), Stormageddon\_1 (DX),

#### Start 9:

- Found in 4 of 232 ( 1.7% ) of genes in pham
- Manual Annotations of this start: 2 of 193
- Called 75.0% of time when present
- Phage (with cluster) where this start called: E3\_gp5 (singleton), Finch\_1 (singleton), Jezreel\_250 (C1),

#### Start 10:

- Found in 220 of 232 ( 94.8% ) of genes in pham
- Manual Annotations of this start: 182 of 193
- Called 99.5% of time when present
- Phage (with cluster) where this start called: Ablatia\_253 (C1), Ading\_256 (C1), Adlitam\_253 (C1), Alice\_239 (C1), Amataga\_254 (C1), ArcherS7\_254 (C1), Asterius\_254 (C1), Astraea\_249 (C1), Atlantean\_253 (C1), Audrick\_256 (C1), Ava3\_250 (C1), Babyland\_256 (C1), BackyardAgain\_248 (C1), BadAgartude\_247 (C1), BananaFence\_251 (C1), Bangla1971\_254 (C1), Basquiat\_251 (C1), BeanWater\_246 (C1), Belieber\_247 (C1), Bezza\_241 (C1), BigCity\_261 (C1), Bigswole\_258 (C1), Bipolarisk\_251 (C1), Blackbrain\_252 (C1), Blackdragon\_248 (C1), Blubba\_241 (C1), BobaPhatt\_246 (C1), Bonray\_256 (C1), Bowman\_252 (C1), Bread\_250 (C1), Breeniome\_253 (C1), Burrough\_254 (C1), Bxz1\_239 (C1), Cactojaque\_248 (C1), Cali\_243 (C1), Cane17\_243 (C1), Capablanca\_258 (C1), Caravan\_243 (C1), Catera\_242 (C1), Chargie21\_251 (C1), CharlieB\_248 (C1), ChaylaJr\_252 (C1), ChickenPhender\_249 (C1), Chomp\_252 (C1), CindyLou\_254 (C1), Cleatunium\_247 (C1), Colt\_244 (C1), Concombre\_259 (C1), DTDevon\_254 (C1), Daffodil\_259 (C1), Dandelion\_259 (C1), Darko\_253 (C1), DeejaClivia\_240 (C1), Delilah\_251 (C1), Delylah\_255 (C1), Demodog\_261 (C1), Derek\_249 (C1), Dessert\_250 (C1), Dietrick\_242 (C1), DirtMonster\_242 (C1), Domi\_247 (C1), DrPhinkDaddy\_250 (C1), Drazdys\_250 (C1), Duckfeet\_247 (C1), ET08\_239 (C1), EasyJones\_254 (C1), EggyFarm\_261 (C1), EmToTheThree\_254 (C1), EmmaElysia\_258 (C1), Erdmann\_255 (C1), ErnieJ\_247 (C1), Essence\_251 (C1), Ewok\_252 (C1), Fixie\_254 (C1), Flabslab\_248 (C1), Fludd\_253 (C1), Fongie\_253 (C1), FoxtrotP1\_252 (C1), FrayBell\_256 (C1), FudgeTart\_249 (C1), Gabriel\_256 (C1), Gamgam\_255 (C1), Ghost\_253 (C1), Gizmo\_259 (C1), GlutenPhree\_254 (C1), Grasshills\_260 (C1), Greely\_254 (C2), Grungle\_235 (C1), Guwapp\_249 (C1), Halldule\_245 (C1), HyRo\_238 (C1), I3\_263 (C1), IkeLoa\_247 (C1),

InigoMontoya\_257 (C1), InterFolia\_255 (C1), Iota\_250 (C1), Issimir\_247 (C1), Izajani\_249 (C1), JPickles\_251 (C1), Janiyra\_257 (C1), JayJay\_253 (C1), Jaygup\_250 (C1), JeanGrey\_1 (singleton), Jedediah\_255 (C1), Jemmno\_253 (C1), Jessibeth14\_253 (C1), JigglyPuff\_259 (C1), JulietS\_242 (C1), JustHall\_247 (C1), Kamryn\_252 (C1), Kboogie\_257 (C1), Khaleesi\_252 (C1), Koguma\_252 (C1), LRRHood\_245 (C1), Labradorite\_250 (C1), Latch\_253 (C1), Lee7\_254 (C1), Lethe\_251 (C1), LifeSavor\_254 (C1), LinStu\_250 (C1), Littleton\_257 (C1), Loanshark\_250 (C1), LolaVinca\_249 (C1), LookingGlass\_251 (C1), LordLeafolot\_254 (C1), Lukilu\_242 (C1), Lunareta\_250 (C1), Maby2021\_254 (C1), Mangeria\_253 (C1), Matsumoto\_251 (C1), Maturis\_247 (C1), McGee\_255 (C1), McWolfish\_250 (C1), Megamind\_250 (C1), Melpomini\_248 (C1), MikeLiesIn\_254 (C1), Mikro\_247 (C1), MoMoMixon\_249 (C1), Moby\_250 (C1), Moiqah\_249 (C1), Momo\_255 (C1), Montpel\_250 (C1), Morizzled23\_251 (C1), Myrna\_246 (C2), Naija\_254 (C1), Napoleon13\_250 (C1), Nappy\_252 (C1), Naval22\_258 (C1), NedWong\_252 (C1), Ngannou\_248 (C1), Nidhogg\_254 (C1), NoodleTree\_249 (C1), Norm\_253 (C1), NuevoMundo\_255 (C1), OrediggerDelux\_250 (C1), ParkTD\_252 (C1), Patter\_255 (C1), Phabba\_256 (C2), PharkleMinkus\_257 (C1), Phlegm\_258 (C1), Phox\_254 (C1), Phusco\_252 (C1), Pier\_252 (C1), Pinkcreek\_233 (C1), Pio\_260 (C1), Pivoine\_254 (C1), Pleione\_257 (C1), Primadonna\_249 (C1), Pupusa\_256 (C1), PurduePete\_254 (C1), QBert\_245 (C1), Quasimodo\_256 (C1), Rabinovish\_246 (C1), Rahel\_255 (C1), Rizal\_242 (C1), RoMag\_248 (C1), Rocha\_249 (C1), Ronan\_249 (C1), Roots515\_256 (C1), SVoro\_248 (C1), Salacia\_255 (C1), Sauce\_250 (C1), ScoobyDoobyDoo\_242 (C2), ScottMcG\_245 (C1), Sebata\_253 (C1), Shaq nato\_244 (C1), Shelob\_254 (C1), ShiaLabeouf\_251 (C1), Shifa\_229 (C1), Shnickers\_252 (C1), Shrimp\_256 (C1), SilverDipper\_258 (C1), SmallFry\_254 (C1), Spec\_247 (C1), Specks\_258 (C1), Sprinklers\_251 (C1), Spud\_245 (C1), SrishMeg2525\_251 (C1), StephanieG\_247 (C1), StubbySaigey\_260 (C1), Stubby\_236 (C1), Substance289\_249 (C1), Tainan\_253 (C1), Teardrop\_252 (C1), TinyTim\_252 (C1), Tortoise16\_251 (C1), Trinitium\_250 (C1), Turret\_244 (C1), Tyke\_250 (C1), ValleyTerrace\_254 (C1), Wally\_251 (C1), Willis\_254 (C1), Yassified\_249 (C1), YemiJoy2021\_254 (C1), YoungMoneyMata\_253 (C1), Yucca\_254 (C1), Zalkecks\_252 (C1), Zeenon\_254 (C1), ZygoTaiga\_250 (C1),

#### Start 11:

- Found in 2 of 232 ( 0.9% ) of genes in pham
- Manual Annotations of this start: 1 of 193
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tonenili\_275 (C1), Vortrix\_272 (C1),

#### Start 12:

- Found in 1 of 232 ( 0.4% ) of genes in pham
- Manual Annotations of this start: 1 of 193
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Skog\_6 (DO),

#### Start 13:

- Found in 3 of 232 ( 1.3% ) of genes in pham
- Manual Annotations of this start: 2 of 193
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Pupper\_174 (DO), SCentae\_173 (DO),

#### Start 17:

- Found in 224 of 232 ( 96.6% ) of genes in pham

- Manual Annotations of this start: 1 of 193
- Called 0.4% of time when present
- Phage (with cluster) where this start called: CherryTomatoes\_175 (DO),

### Summary by clusters:

There are 6 clusters represented in this pham: AA, DO, singleton, DX, C2, C1,

Info for manual annotations of cluster AA:

- Start number 7 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster C1:

- Start number 9 was manually annotated 1 time for cluster C1.
- Start number 10 was manually annotated 178 times for cluster C1.
- Start number 11 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:

- Start number 10 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster DO:

- Start number 12 was manually annotated 1 time for cluster DO.
- Start number 13 was manually annotated 2 times for cluster DO.
- Start number 17 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster DX:

- Start number 8 was manually annotated 2 times for cluster DX.

### Gene Information:

Gene: Ablatia\_253 Start: 145237, Stop: 148260, Start Num: 10

Candidate Starts for Ablatia\_253:

(2, 144955), (Start: 10 @145237 has 182 MA's), (Start: 17 @145303 has 1 MA's), (19, 145345), (21, 145369), (23, 145387), (28, 145426), (36, 145498), (37, 145513), (40, 145570), (42, 145576), (43, 145603), (47, 145678), (49, 145690), (57, 145765), (58, 145768), (67, 145876), (75, 145987), (80, 146074), (82, 146104), (83, 146122), (86, 146146), (88, 146161), (97, 146452), (98, 146512), (100, 146560), (101, 146569), (103, 146641), (104, 146743), (105, 146788), (106, 146818), (108, 146881), (111, 146896), (125, 147055), (132, 147079), (134, 147136), (139, 147223), (148, 147331), (152, 147391), (164, 147502), (166, 147514), (170, 147565), (176, 147622), (192, 147769), (202, 147892), (204, 147919), (205, 147922), (206, 147925), (207, 147928), (214, 147985), (217, 148033), (227, 148093), (230, 148102), (241, 148213),

Gene: Ading\_256 Start: 147670, Stop: 150693, Start Num: 10

Candidate Starts for Ading\_256:

(2, 147388), (Start: 10 @147670 has 182 MA's), (Start: 17 @147736 has 1 MA's), (19, 147778), (21, 147802), (23, 147820), (28, 147859), (36, 147931), (37, 147946), (40, 148003), (42, 148009), (43, 148036), (47, 148111), (49, 148123), (57, 148198), (58, 148201), (67, 148309), (75, 148420), (80, 148507), (82, 148537), (83, 148555), (86, 148579), (88, 148594), (97, 148885), (98, 148945), (100, 148993), (101, 149002), (103, 149074), (104, 149176), (105, 149221), (106, 149251), (108, 149314), (111, 149329), (125, 149488), (132, 149512), (134, 149569), (139, 149656), (148, 149764), (164, 149935), (166, 149947), (170, 149998), (176, 150055), (192, 150202), (202, 150325), (204, 150352), (205, 150355), (206, 150358), (207, 150361), (214, 150418), (217, 150466), (227, 150526), (230,

150535), (241, 150646),

Gene: Adlitam\_253 Start: 145825, Stop: 148041, Start Num: 10

Candidate Starts for Adlitam\_253:

(2, 145543), (Start: 10 @145825 has 182 MA's), (Start: 17 @145891 has 1 MA's), (19, 145933), (21, 145957), (23, 145975), (28, 146014), (36, 146086), (37, 146101), (40, 146158), (42, 146164), (43, 146191), (47, 146266), (49, 146278), (57, 146353), (58, 146356), (67, 146464), (72, 146548), (75, 146575), (80, 146662), (125, 146836), (132, 146860), (134, 146917), (139, 147004), (148, 147112), (152, 147172), (164, 147283), (166, 147295), (168, 147304), (170, 147346), (176, 147403), (189, 147535), (192, 147550), (202, 147673), (204, 147700), (205, 147703), (206, 147706), (207, 147709), (214, 147766), (217, 147814), (227, 147874), (230, 147883), (241, 147994),

Gene: Alice\_239 Start: 142901, Stop: 145924, Start Num: 10

Candidate Starts for Alice\_239:

(Start: 10 @142901 has 182 MA's), (Start: 17 @142967 has 1 MA's), (19, 143009), (21, 143033), (23, 143051), (28, 143090), (36, 143162), (37, 143177), (40, 143234), (42, 143240), (43, 143267), (47, 143342), (49, 143354), (57, 143429), (58, 143432), (67, 143540), (75, 143651), (80, 143738), (82, 143768), (83, 143786), (86, 143810), (88, 143825), (97, 144116), (98, 144176), (100, 144224), (101, 144233), (102, 144257), (104, 144407), (105, 144452), (106, 144482), (108, 144545), (111, 144560), (125, 144719), (132, 144743), (134, 144800), (139, 144887), (148, 144995), (152, 145055), (164, 145166), (166, 145178), (168, 145187), (170, 145229), (176, 145286), (192, 145433), (202, 145556), (204, 145583), (205, 145586), (206, 145589), (207, 145592), (214, 145649), (217, 145697), (227, 145757), (230, 145766), (241, 145877),

Gene: Amataga\_254 Start: 144824, Stop: 147847, Start Num: 10

Candidate Starts for Amataga\_254:

(2, 144542), (Start: 10 @144824 has 182 MA's), (Start: 17 @144890 has 1 MA's), (19, 144932), (21, 144956), (23, 144974), (28, 145013), (36, 145085), (37, 145100), (40, 145157), (42, 145163), (43, 145190), (47, 145265), (49, 145277), (57, 145352), (58, 145355), (67, 145463), (75, 145574), (80, 145661), (82, 145691), (83, 145709), (86, 145733), (88, 145748), (97, 146039), (98, 146099), (100, 146147), (101, 146156), (103, 146228), (104, 146330), (105, 146375), (106, 146405), (108, 146468), (111, 146483), (125, 146642), (132, 146666), (134, 146723), (139, 146810), (148, 146918), (164, 147089), (166, 147101), (170, 147152), (176, 147209), (192, 147356), (202, 147479), (204, 147506), (205, 147509), (206, 147512), (207, 147515), (214, 147572), (217, 147620), (227, 147680), (230, 147689), (241, 147800),

Gene: ArcherS7\_254 Start: 146569, Stop: 149592, Start Num: 10

Candidate Starts for ArcherS7\_254:

(2, 146287), (Start: 10 @146569 has 182 MA's), (Start: 17 @146635 has 1 MA's), (19, 146677), (21, 146701), (23, 146719), (28, 146758), (36, 146830), (37, 146845), (40, 146902), (42, 146908), (43, 146935), (47, 147010), (49, 147022), (57, 147097), (58, 147100), (67, 147208), (72, 147292), (75, 147319), (80, 147406), (82, 147436), (83, 147454), (86, 147478), (88, 147493), (97, 147784), (98, 147844), (100, 147892), (101, 147901), (103, 147973), (104, 148075), (105, 148120), (106, 148150), (108, 148213), (111, 148228), (125, 148387), (132, 148411), (134, 148468), (139, 148555), (148, 148663), (152, 148723), (164, 148834), (166, 148846), (168, 148855), (170, 148897), (176, 148954), (189, 149086), (192, 149101), (202, 149224), (204, 149251), (205, 149254), (206, 149257), (207, 149260), (214, 149317), (217, 149365), (227, 149425), (230, 149434), (241, 149545),

Gene: Asterius\_254 Start: 145682, Stop: 147898, Start Num: 10

Candidate Starts for Asterius\_254:

(2, 145400), (Start: 10 @145682 has 182 MA's), (Start: 17 @145748 has 1 MA's), (19, 145790), (21, 145814), (23, 145832), (28, 145871), (36, 145943), (37, 145958), (40, 146015), (42, 146021), (43, 146048), (47, 146123), (49, 146135), (57, 146210), (58, 146213), (67, 146321), (72, 146405), (75,

146432), (80, 146519), (125, 146693), (132, 146717), (134, 146774), (139, 146861), (148, 146969), (152, 147029), (164, 147140), (166, 147152), (168, 147161), (170, 147203), (176, 147260), (189, 147392), (192, 147407), (202, 147530), (204, 147557), (205, 147560), (206, 147563), (207, 147566), (214, 147623), (217, 147671), (227, 147731), (230, 147740), (241, 147851),

Gene: *Astraea\_249* Start: 144877, Stop: 147900, Start Num: 10

Candidate Starts for *Astraea\_249*:

(2, 144595), (Start: 10 @144877 has 182 MA's), (Start: 17 @144943 has 1 MA's), (19, 144985), (21, 145009), (23, 145027), (28, 145066), (36, 145138), (37, 145153), (40, 145210), (42, 145216), (43, 145243), (47, 145318), (49, 145330), (57, 145405), (58, 145408), (67, 145516), (72, 145600), (75, 145627), (80, 145714), (82, 145744), (83, 145762), (86, 145786), (88, 145801), (97, 146092), (98, 146152), (100, 146200), (101, 146209), (102, 146233), (104, 146383), (105, 146428), (106, 146458), (108, 146521), (111, 146536), (125, 146695), (132, 146719), (134, 146776), (139, 146863), (148, 146971), (152, 147031), (164, 147142), (166, 147154), (170, 147205), (176, 147262), (192, 147409), (202, 147532), (204, 147559), (205, 147562), (206, 147565), (207, 147568), (214, 147625), (217, 147673), (227, 147733), (230, 147742), (241, 147853),

Gene: *Atlantean\_253* Start: 144824, Stop: 147847, Start Num: 10

Candidate Starts for *Atlantean\_253*:

(2, 144542), (Start: 10 @144824 has 182 MA's), (Start: 17 @144890 has 1 MA's), (19, 144932), (21, 144956), (23, 144974), (28, 145013), (36, 145085), (37, 145100), (40, 145157), (42, 145163), (43, 145190), (47, 145265), (49, 145277), (57, 145352), (58, 145355), (67, 145463), (75, 145574), (80, 145661), (82, 145691), (83, 145709), (86, 145733), (88, 145748), (97, 146039), (98, 146099), (100, 146147), (101, 146156), (103, 146228), (104, 146330), (105, 146375), (106, 146405), (108, 146468), (111, 146483), (125, 146642), (132, 146666), (134, 146723), (139, 146810), (148, 146918), (164, 147089), (166, 147101), (170, 147152), (176, 147209), (192, 147356), (202, 147479), (204, 147506), (205, 147509), (206, 147512), (207, 147515), (214, 147572), (217, 147620), (227, 147680), (230, 147689), (241, 147800),

Gene: *Audrick\_256* Start: 144714, Stop: 147737, Start Num: 10

Candidate Starts for *Audrick\_256*:

(2, 144432), (Start: 10 @144714 has 182 MA's), (Start: 17 @144780 has 1 MA's), (19, 144822), (21, 144846), (23, 144864), (28, 144903), (36, 144975), (37, 144990), (40, 145047), (42, 145053), (43, 145080), (47, 145155), (49, 145167), (57, 145242), (58, 145245), (67, 145353), (75, 145464), (80, 145551), (82, 145581), (83, 145599), (86, 145623), (88, 145638), (97, 145929), (98, 145989), (100, 146037), (101, 146046), (103, 146118), (104, 146220), (105, 146265), (106, 146295), (108, 146358), (111, 146373), (125, 146532), (132, 146556), (134, 146613), (139, 146700), (148, 146808), (164, 146979), (166, 146991), (170, 147042), (176, 147099), (192, 147246), (202, 147369), (204, 147396), (205, 147399), (206, 147402), (207, 147405), (214, 147462), (217, 147510), (227, 147570), (230, 147579), (241, 147690),

Gene: *Ava3\_250* Start: 145284, Stop: 147500, Start Num: 10

Candidate Starts for *Ava3\_250*:

(2, 145002), (Start: 10 @145284 has 182 MA's), (Start: 17 @145350 has 1 MA's), (19, 145392), (21, 145416), (23, 145434), (28, 145473), (36, 145545), (37, 145560), (40, 145617), (42, 145623), (43, 145650), (47, 145725), (49, 145737), (57, 145812), (58, 145815), (67, 145923), (72, 146007), (75, 146034), (80, 146121), (125, 146295), (132, 146319), (134, 146376), (139, 146463), (148, 146571), (152, 146631), (164, 146742), (166, 146754), (168, 146763), (170, 146805), (176, 146862), (189, 146994), (192, 147009), (202, 147132), (204, 147159), (205, 147162), (206, 147165), (207, 147168), (214, 147225), (217, 147273), (227, 147333), (230, 147342), (241, 147453),

Gene: *Babyland\_256* Start: 145601, Stop: 148624, Start Num: 10

Candidate Starts for *Babyland\_256*:

(2, 145319), (Start: 10 @145601 has 182 MA's), (Start: 17 @145667 has 1 MA's), (19, 145709), (21, 145733), (23, 145751), (28, 145790), (36, 145862), (37, 145877), (40, 145934), (42, 145940), (43, 145967), (47, 146042), (49, 146054), (57, 146129), (58, 146132), (67, 146240), (75, 146351), (80, 146438), (82, 146468), (83, 146486), (86, 146510), (88, 146525), (97, 146816), (98, 146876), (100, 146924), (101, 146933), (103, 147005), (104, 147107), (105, 147152), (106, 147182), (108, 147245), (111, 147260), (125, 147419), (132, 147443), (134, 147500), (139, 147587), (148, 147695), (164, 147866), (166, 147878), (170, 147929), (176, 147986), (192, 148133), (202, 148256), (204, 148283), (205, 148286), (206, 148289), (207, 148292), (214, 148349), (217, 148397), (227, 148457), (230, 148466), (241, 148577),

Gene: BackyardAgain\_248 Start: 142974, Stop: 145997, Start Num: 10

Candidate Starts for BackyardAgain\_248:

(2, 142692), (Start: 10 @142974 has 182 MA's), (Start: 17 @143040 has 1 MA's), (19, 143082), (21, 143106), (23, 143124), (28, 143163), (36, 143235), (37, 143250), (40, 143307), (42, 143313), (43, 143340), (47, 143415), (49, 143427), (57, 143502), (58, 143505), (67, 143613), (75, 143724), (80, 143811), (82, 143841), (83, 143859), (86, 143883), (88, 143898), (97, 144189), (98, 144249), (100, 144297), (101, 144306), (103, 144378), (104, 144480), (105, 144525), (106, 144555), (108, 144618), (111, 144633), (125, 144792), (132, 144816), (134, 144873), (139, 144960), (148, 145068), (152, 145128), (164, 145239), (166, 145251), (170, 145302), (176, 145359), (192, 145506), (202, 145629), (204, 145656), (205, 145659), (206, 145662), (207, 145665), (214, 145722), (217, 145770), (227, 145830), (230, 145839), (241, 145950),

Gene: BadAgartude\_247 Start: 144886, Stop: 147909, Start Num: 10

Candidate Starts for BadAgartude\_247:

(2, 144604), (Start: 10 @144886 has 182 MA's), (Start: 17 @144952 has 1 MA's), (19, 144994), (21, 145018), (23, 145036), (28, 145075), (36, 145147), (37, 145162), (40, 145219), (42, 145225), (43, 145252), (47, 145327), (49, 145339), (57, 145414), (58, 145417), (67, 145525), (72, 145609), (75, 145636), (80, 145723), (82, 145753), (83, 145771), (86, 145795), (88, 145810), (97, 146101), (98, 146161), (100, 146209), (101, 146218), (102, 146242), (104, 146392), (105, 146437), (106, 146467), (108, 146530), (111, 146545), (125, 146704), (132, 146728), (134, 146785), (139, 146872), (148, 146980), (152, 147040), (164, 147151), (166, 147163), (168, 147172), (170, 147214), (176, 147271), (189, 147403), (192, 147418), (202, 147541), (204, 147568), (205, 147571), (206, 147574), (207, 147577), (214, 147634), (217, 147682), (227, 147742), (230, 147751), (241, 147862),

Gene: BananaFence\_251 Start: 145506, Stop: 148529, Start Num: 10

Candidate Starts for BananaFence\_251:

(2, 145224), (Start: 10 @145506 has 182 MA's), (Start: 17 @145572 has 1 MA's), (19, 145614), (21, 145638), (23, 145656), (28, 145695), (36, 145767), (37, 145782), (40, 145839), (42, 145845), (43, 145872), (47, 145947), (49, 145959), (57, 146034), (58, 146037), (67, 146145), (75, 146256), (80, 146343), (82, 146373), (83, 146391), (86, 146415), (88, 146430), (97, 146721), (98, 146781), (100, 146829), (101, 146838), (102, 146862), (104, 147012), (105, 147057), (106, 147087), (108, 147150), (111, 147165), (125, 147324), (132, 147348), (134, 147405), (139, 147492), (148, 147600), (152, 147660), (164, 147771), (166, 147783), (168, 147792), (170, 147834), (176, 147891), (189, 148023), (192, 148038), (202, 148161), (204, 148188), (205, 148191), (206, 148194), (207, 148197), (214, 148254), (217, 148302), (227, 148362), (230, 148371), (241, 148482),

Gene: Bangla1971\_254 Start: 145533, Stop: 147749, Start Num: 10

Candidate Starts for Bangla1971\_254:

(2, 145251), (Start: 10 @145533 has 182 MA's), (Start: 17 @145599 has 1 MA's), (19, 145641), (21, 145665), (23, 145683), (28, 145722), (36, 145794), (37, 145809), (40, 145866), (42, 145872), (43, 145899), (47, 145974), (49, 145986), (57, 146061), (58, 146064), (67, 146172), (72, 146256), (75, 146283), (80, 146370), (125, 146544), (132, 146568), (134, 146625), (139, 146712), (148, 146820), (152, 146880), (164, 146991), (166, 147003), (168, 147012), (170, 147054), (176, 147111), (189,

147243), (192, 147258), (202, 147381), (204, 147408), (205, 147411), (206, 147414), (207, 147417), (214, 147474), (217, 147522), (227, 147582), (230, 147591), (241, 147702),

Gene: Basquiat\_251 Start: 143792, Stop: 146815, Start Num: 10

Candidate Starts for Basquiat\_251:

(2, 143510), (Start: 10 @143792 has 182 MA's), (Start: 17 @143858 has 1 MA's), (19, 143900), (21, 143924), (23, 143942), (28, 143981), (36, 144053), (37, 144068), (40, 144125), (42, 144131), (43, 144158), (47, 144233), (49, 144245), (57, 144320), (58, 144323), (67, 144431), (72, 144515), (75, 144542), (80, 144629), (82, 144659), (83, 144677), (86, 144701), (88, 144716), (97, 145007), (98, 145067), (100, 145115), (101, 145124), (103, 145196), (104, 145298), (105, 145343), (106, 145373), (108, 145436), (111, 145451), (125, 145610), (132, 145634), (134, 145691), (139, 145778), (148, 145886), (152, 145946), (164, 146057), (166, 146069), (170, 146120), (176, 146177), (192, 146324), (202, 146447), (204, 146474), (205, 146477), (206, 146480), (207, 146483), (214, 146540), (217, 146588), (227, 146648), (230, 146657), (241, 146768),

Gene: BeanWater\_246 Start: 144669, Stop: 146885, Start Num: 10

Candidate Starts for BeanWater\_246:

(2, 144387), (Start: 10 @144669 has 182 MA's), (Start: 17 @144735 has 1 MA's), (19, 144777), (21, 144801), (23, 144819), (28, 144858), (36, 144930), (37, 144945), (40, 145002), (42, 145008), (43, 145035), (47, 145110), (49, 145122), (57, 145197), (58, 145200), (67, 145308), (72, 145392), (75, 145419), (80, 145506), (125, 145680), (132, 145704), (134, 145761), (139, 145848), (148, 145956), (152, 146016), (164, 146127), (166, 146139), (168, 146148), (170, 146190), (176, 146247), (189, 146379), (192, 146394), (202, 146517), (204, 146544), (205, 146547), (206, 146550), (207, 146553), (214, 146610), (217, 146658), (227, 146718), (230, 146727), (241, 146838),

Gene: Belieber\_247 Start: 143919, Stop: 146942, Start Num: 10

Candidate Starts for Belieber\_247:

(2, 143637), (Start: 10 @143919 has 182 MA's), (Start: 17 @143985 has 1 MA's), (19, 144027), (21, 144051), (23, 144069), (28, 144108), (36, 144180), (37, 144195), (40, 144252), (42, 144258), (43, 144285), (47, 144360), (49, 144372), (57, 144447), (58, 144450), (67, 144558), (75, 144669), (80, 144756), (82, 144786), (83, 144804), (86, 144828), (88, 144843), (97, 145134), (98, 145194), (100, 145242), (101, 145251), (103, 145323), (104, 145425), (105, 145470), (106, 145500), (108, 145563), (111, 145578), (125, 145737), (132, 145761), (134, 145818), (139, 145905), (148, 146013), (152, 146073), (164, 146184), (166, 146196), (168, 146205), (170, 146247), (176, 146304), (189, 146436), (192, 146451), (202, 146574), (204, 146601), (205, 146604), (206, 146607), (207, 146610), (214, 146667), (217, 146715), (227, 146775), (230, 146784), (241, 146895),

Gene: Bezza\_241 Start: 144362, Stop: 146578, Start Num: 10

Candidate Starts for Bezza\_241:

(2, 144080), (Start: 10 @144362 has 182 MA's), (Start: 17 @144428 has 1 MA's), (19, 144470), (21, 144494), (23, 144512), (28, 144551), (36, 144623), (37, 144638), (40, 144695), (42, 144701), (43, 144728), (47, 144803), (49, 144815), (57, 144890), (58, 144893), (67, 145001), (72, 145085), (75, 145112), (80, 145199), (125, 145373), (132, 145397), (134, 145454), (139, 145541), (148, 145649), (152, 145709), (164, 145820), (166, 145832), (168, 145841), (170, 145883), (176, 145940), (189, 146072), (192, 146087), (202, 146210), (204, 146237), (205, 146240), (206, 146243), (207, 146246), (214, 146303), (217, 146351), (227, 146411), (230, 146420), (241, 146531),

Gene: BigCity\_261 Start: 147424, Stop: 149640, Start Num: 10

Candidate Starts for BigCity\_261:

(2, 147142), (Start: 10 @147424 has 182 MA's), (Start: 17 @147490 has 1 MA's), (19, 147532), (21, 147556), (23, 147574), (28, 147613), (36, 147685), (37, 147700), (40, 147757), (42, 147763), (43, 147790), (47, 147865), (49, 147877), (57, 147952), (58, 147955), (67, 148063), (72, 148147), (75, 148174), (80, 148261), (125, 148435), (132, 148459), (134, 148516), (139, 148603), (148, 148711),

(152, 148771), (164, 148882), (166, 148894), (168, 148903), (170, 148945), (176, 149002), (190, 149140), (192, 149149), (202, 149272), (204, 149299), (205, 149302), (206, 149305), (207, 149308), (214, 149365), (217, 149413), (227, 149473), (230, 149482), (241, 149593),

Gene: Bigswole\_258 Start: 147335, Stop: 149551, Start Num: 10

Candidate Starts for Bigswole\_258:

(2, 147053), (Start: 10 @147335 has 182 MA's), (Start: 17 @147401 has 1 MA's), (19, 147443), (21, 147467), (23, 147485), (28, 147524), (36, 147596), (37, 147611), (40, 147668), (42, 147674), (43, 147701), (47, 147776), (49, 147788), (57, 147863), (58, 147866), (67, 147974), (72, 148058), (75, 148085), (80, 148172), (125, 148346), (132, 148370), (134, 148427), (139, 148514), (148, 148622), (152, 148682), (164, 148793), (166, 148805), (168, 148814), (170, 148856), (176, 148913), (189, 149045), (192, 149060), (202, 149183), (204, 149210), (205, 149213), (206, 149216), (207, 149219), (214, 149276), (217, 149324), (227, 149384), (230, 149393), (241, 149504),

Gene: Bipolarisk\_251 Start: 145552, Stop: 147768, Start Num: 10

Candidate Starts for Bipolarisk\_251:

(2, 145270), (Start: 10 @145552 has 182 MA's), (Start: 17 @145618 has 1 MA's), (19, 145660), (21, 145684), (23, 145702), (28, 145741), (36, 145813), (37, 145828), (40, 145885), (42, 145891), (43, 145918), (47, 145993), (49, 146005), (57, 146080), (58, 146083), (67, 146191), (72, 146275), (75, 146302), (80, 146389), (125, 146563), (132, 146587), (134, 146644), (139, 146731), (148, 146839), (152, 146899), (164, 147010), (166, 147022), (168, 147031), (170, 147073), (176, 147130), (189, 147262), (192, 147277), (202, 147400), (204, 147427), (205, 147430), (206, 147433), (207, 147436), (214, 147493), (217, 147541), (227, 147601), (230, 147610), (241, 147721),

Gene: Blackbrain\_252 Start: 145569, Stop: 148592, Start Num: 10

Candidate Starts for Blackbrain\_252:

(2, 145287), (Start: 10 @145569 has 182 MA's), (Start: 17 @145635 has 1 MA's), (19, 145677), (21, 145701), (23, 145719), (28, 145758), (36, 145830), (37, 145845), (40, 145902), (42, 145908), (43, 145935), (47, 146010), (49, 146022), (57, 146097), (58, 146100), (67, 146208), (72, 146292), (75, 146319), (80, 146406), (82, 146436), (83, 146454), (86, 146478), (88, 146493), (97, 146784), (98, 146844), (100, 146892), (101, 146901), (103, 146973), (104, 147075), (105, 147120), (106, 147150), (108, 147213), (111, 147228), (125, 147387), (132, 147411), (134, 147468), (139, 147555), (148, 147663), (152, 147723), (164, 147834), (166, 147846), (170, 147897), (176, 147954), (192, 148101), (202, 148224), (204, 148251), (205, 148254), (206, 148257), (207, 148260), (214, 148317), (217, 148365), (227, 148425), (230, 148434), (241, 148545),

Gene: Blackdragon\_248 Start: 145117, Stop: 148140, Start Num: 10

Candidate Starts for Blackdragon\_248:

(2, 144835), (Start: 10 @145117 has 182 MA's), (Start: 17 @145183 has 1 MA's), (19, 145225), (21, 145249), (23, 145267), (28, 145306), (36, 145378), (37, 145393), (40, 145450), (42, 145456), (43, 145483), (47, 145558), (49, 145570), (57, 145645), (58, 145648), (67, 145756), (72, 145840), (75, 145867), (80, 145954), (82, 145984), (83, 146002), (86, 146026), (88, 146041), (97, 146332), (98, 146392), (100, 146440), (101, 146449), (103, 146521), (104, 146623), (105, 146668), (106, 146698), (108, 146761), (111, 146776), (125, 146935), (132, 146959), (134, 147016), (139, 147103), (148, 147211), (152, 147271), (164, 147382), (166, 147394), (170, 147445), (176, 147502), (192, 147649), (202, 147772), (204, 147799), (205, 147802), (206, 147805), (207, 147808), (214, 147865), (217, 147913), (227, 147973), (230, 147982), (241, 148093),

Gene: Blubba\_241 Start: 148830, Stop: 151853, Start Num: 10

Candidate Starts for Blubba\_241:

(Start: 10 @148830 has 182 MA's), (Start: 17 @148896 has 1 MA's), (19, 148938), (21, 148962), (23, 148980), (28, 149019), (36, 149091), (37, 149106), (40, 149163), (42, 149169), (43, 149196), (47, 149271), (49, 149283), (57, 149358), (58, 149361), (67, 149469), (75, 149580), (80, 149667), (82,

149697), (83, 149715), (86, 149739), (88, 149754), (97, 150045), (98, 150105), (100, 150153), (101, 150162), (102, 150186), (104, 150336), (105, 150381), (106, 150411), (108, 150474), (111, 150489), (125, 150648), (132, 150672), (134, 150729), (139, 150816), (148, 150924), (152, 150984), (164, 151095), (166, 151107), (168, 151116), (170, 151158), (176, 151215), (192, 151362), (202, 151485), (204, 151512), (205, 151515), (206, 151518), (207, 151521), (214, 151578), (217, 151626), (227, 151686), (230, 151695), (241, 151806),

Gene: BobaPhatt\_246 Start: 144687, Stop: 147710, Start Num: 10

Candidate Starts for BobaPhatt\_246:

(2, 144405), (Start: 10 @144687 has 182 MA's), (Start: 17 @144753 has 1 MA's), (19, 144795), (21, 144819), (23, 144837), (28, 144876), (36, 144948), (37, 144963), (40, 145020), (42, 145026), (43, 145053), (47, 145128), (49, 145140), (57, 145215), (58, 145218), (67, 145326), (75, 145437), (80, 145524), (82, 145554), (83, 145572), (86, 145596), (88, 145611), (97, 145902), (98, 145962), (100, 146010), (101, 146019), (103, 146091), (104, 146193), (105, 146238), (106, 146268), (108, 146331), (111, 146346), (125, 146505), (132, 146529), (134, 146586), (139, 146673), (148, 146781), (152, 146841), (164, 146952), (166, 146964), (170, 147015), (176, 147072), (192, 147219), (202, 147342), (204, 147369), (205, 147372), (206, 147375), (207, 147378), (214, 147435), (217, 147483), (227, 147543), (230, 147552), (241, 147663),

Gene: Bonray\_256 Start: 147369, Stop: 150392, Start Num: 10

Candidate Starts for Bonray\_256:

(2, 147087), (Start: 10 @147369 has 182 MA's), (Start: 17 @147435 has 1 MA's), (19, 147477), (21, 147501), (23, 147519), (28, 147558), (36, 147630), (37, 147645), (40, 147702), (42, 147708), (43, 147735), (47, 147810), (49, 147822), (57, 147897), (58, 147900), (67, 148008), (72, 148092), (75, 148119), (80, 148206), (82, 148236), (83, 148254), (86, 148278), (88, 148293), (97, 148584), (98, 148644), (100, 148692), (101, 148701), (103, 148773), (104, 148875), (105, 148920), (106, 148950), (108, 149013), (111, 149028), (125, 149187), (132, 149211), (134, 149268), (139, 149355), (148, 149463), (152, 149523), (164, 149634), (166, 149646), (168, 149655), (170, 149697), (176, 149754), (192, 149901), (202, 150024), (204, 150051), (205, 150054), (206, 150057), (207, 150060), (214, 150117), (217, 150165), (227, 150225), (230, 150234), (241, 150345),

Gene: Bowman\_252 Start: 146484, Stop: 149507, Start Num: 10

Candidate Starts for Bowman\_252:

(2, 146202), (Start: 10 @146484 has 182 MA's), (Start: 17 @146550 has 1 MA's), (19, 146592), (21, 146616), (23, 146634), (28, 146673), (36, 146745), (37, 146760), (40, 146817), (42, 146823), (43, 146850), (47, 146925), (49, 146937), (57, 147012), (58, 147015), (67, 147123), (72, 147207), (75, 147234), (80, 147321), (82, 147351), (83, 147369), (86, 147393), (88, 147408), (97, 147699), (98, 147759), (100, 147807), (101, 147816), (102, 147840), (104, 147990), (105, 148035), (106, 148065), (108, 148128), (111, 148143), (125, 148302), (132, 148326), (134, 148383), (139, 148470), (148, 148578), (152, 148638), (164, 148749), (166, 148761), (168, 148770), (170, 148812), (176, 148869), (189, 149001), (192, 149016), (202, 149139), (204, 149166), (205, 149169), (206, 149172), (207, 149175), (214, 149232), (217, 149280), (227, 149340), (230, 149349), (241, 149460),

Gene: Bread\_250 Start: 145336, Stop: 147552, Start Num: 10

Candidate Starts for Bread\_250:

(2, 145054), (Start: 10 @145336 has 182 MA's), (Start: 17 @145402 has 1 MA's), (19, 145444), (21, 145468), (23, 145486), (28, 145525), (36, 145597), (37, 145612), (40, 145669), (42, 145675), (43, 145702), (47, 145777), (49, 145789), (57, 145864), (58, 145867), (67, 145975), (72, 146059), (75, 146086), (80, 146173), (125, 146347), (132, 146371), (134, 146428), (139, 146515), (148, 146623), (152, 146683), (164, 146794), (166, 146806), (168, 146815), (170, 146857), (176, 146914), (189, 147046), (192, 147061), (202, 147184), (204, 147211), (205, 147214), (206, 147217), (207, 147220), (214, 147277), (217, 147325), (227, 147385), (230, 147394), (241, 147505),

Gene: Breeniome\_253 Start: 144324, Stop: 147347, Start Num: 10

Candidate Starts for Breeniome\_253:

(2, 144042), (Start: 10 @144324 has 182 MA's), (Start: 17 @144390 has 1 MA's), (19, 144432), (21, 144456), (23, 144474), (28, 144513), (36, 144585), (37, 144600), (40, 144657), (42, 144663), (43, 144690), (47, 144765), (49, 144777), (57, 144852), (58, 144855), (67, 144963), (72, 145047), (75, 145074), (80, 145161), (82, 145191), (83, 145209), (86, 145233), (88, 145248), (97, 145539), (98, 145599), (100, 145647), (101, 145656), (103, 145728), (104, 145830), (105, 145875), (106, 145905), (108, 145968), (111, 145983), (125, 146142), (132, 146166), (134, 146223), (139, 146310), (148, 146418), (152, 146478), (164, 146589), (166, 146601), (168, 146610), (170, 146652), (176, 146709), (189, 146841), (192, 146856), (202, 146979), (204, 147006), (205, 147009), (206, 147012), (207, 147015), (214, 147072), (217, 147120), (227, 147180), (230, 147189), (241, 147300),

Gene: Burrough\_254 Start: 146697, Stop: 148913, Start Num: 10

Candidate Starts for Burrough\_254:

(2, 146415), (Start: 10 @146697 has 182 MA's), (Start: 17 @146763 has 1 MA's), (19, 146805), (21, 146829), (23, 146847), (28, 146886), (36, 146958), (37, 146973), (40, 147030), (42, 147036), (43, 147063), (47, 147138), (49, 147150), (57, 147225), (58, 147228), (67, 147336), (72, 147420), (75, 147447), (80, 147534), (125, 147708), (132, 147732), (134, 147789), (139, 147876), (148, 147984), (152, 148044), (164, 148155), (166, 148167), (168, 148176), (170, 148218), (176, 148275), (189, 148407), (192, 148422), (202, 148545), (204, 148572), (205, 148575), (206, 148578), (207, 148581), (214, 148638), (217, 148686), (227, 148746), (230, 148755), (241, 148866),

Gene: Bxz1\_239 Start: 146901, Stop: 149117, Start Num: 10

Candidate Starts for Bxz1\_239:

(2, 146619), (Start: 10 @146901 has 182 MA's), (Start: 17 @146967 has 1 MA's), (19, 147009), (21, 147033), (23, 147051), (28, 147090), (36, 147162), (37, 147177), (40, 147234), (42, 147240), (43, 147267), (47, 147342), (49, 147354), (57, 147429), (58, 147432), (67, 147540), (72, 147624), (75, 147651), (80, 147738), (125, 147912), (132, 147936), (134, 147993), (139, 148080), (148, 148188), (152, 148248), (164, 148359), (166, 148371), (168, 148380), (170, 148422), (176, 148479), (189, 148611), (192, 148626), (202, 148749), (204, 148776), (205, 148779), (206, 148782), (207, 148785), (214, 148842), (217, 148890), (227, 148950), (230, 148959), (241, 149070),

Gene: Cactojaque\_248 Start: 144515, Stop: 147538, Start Num: 10

Candidate Starts for Cactojaque\_248:

(2, 144233), (Start: 10 @144515 has 182 MA's), (Start: 17 @144581 has 1 MA's), (19, 144623), (21, 144647), (23, 144665), (28, 144704), (36, 144776), (37, 144791), (40, 144848), (42, 144854), (43, 144881), (47, 144956), (49, 144968), (57, 145043), (58, 145046), (67, 145154), (72, 145238), (75, 145265), (80, 145352), (82, 145382), (83, 145400), (86, 145424), (88, 145439), (97, 145730), (98, 145790), (100, 145838), (101, 145847), (103, 145919), (104, 146021), (105, 146066), (106, 146096), (108, 146159), (111, 146174), (125, 146333), (132, 146357), (134, 146414), (139, 146501), (148, 146609), (152, 146669), (164, 146780), (166, 146792), (170, 146843), (176, 146900), (192, 147047), (202, 147170), (204, 147197), (205, 147200), (206, 147203), (207, 147206), (214, 147263), (217, 147311), (227, 147371), (230, 147380), (241, 147491),

Gene: Cali\_243 Start: 145294, Stop: 148317, Start Num: 10

Candidate Starts for Cali\_243:

(Start: 10 @145294 has 182 MA's), (Start: 17 @145360 has 1 MA's), (19, 145402), (21, 145426), (23, 145444), (28, 145483), (36, 145555), (37, 145570), (40, 145627), (42, 145633), (43, 145660), (47, 145735), (49, 145747), (57, 145822), (58, 145825), (67, 145933), (72, 146017), (75, 146044), (80, 146131), (82, 146161), (83, 146179), (86, 146203), (88, 146218), (97, 146509), (98, 146569), (100, 146617), (101, 146626), (103, 146698), (104, 146800), (105, 146845), (106, 146875), (108, 146938), (111, 146953), (125, 147112), (132, 147136), (134, 147193), (139, 147280), (148, 147388), (152, 147448), (164, 147559), (166, 147571), (168, 147580), (170, 147622), (176, 147679), (189, 147811),

(192, 147826), (202, 147949), (204, 147976), (205, 147979), (206, 147982), (207, 147985), (214, 148042), (217, 148090), (227, 148150), (230, 148159), (241, 148270),

Gene: Cane17\_243 Start: 149239, Stop: 152262, Start Num: 10

Candidate Starts for Cane17\_243:

(Start: 10 @149239 has 182 MA's), (Start: 17 @149305 has 1 MA's), (19, 149347), (21, 149371), (23, 149389), (28, 149428), (36, 149500), (37, 149515), (40, 149572), (42, 149578), (43, 149605), (47, 149680), (49, 149692), (57, 149767), (58, 149770), (67, 149878), (72, 149962), (75, 149989), (80, 150076), (82, 150106), (83, 150124), (86, 150148), (88, 150163), (97, 150454), (98, 150514), (101, 150571), (102, 150595), (104, 150745), (105, 150790), (106, 150820), (108, 150883), (111, 150898), (125, 151057), (132, 151081), (134, 151138), (139, 151225), (148, 151333), (152, 151393), (164, 151504), (166, 151516), (168, 151525), (170, 151567), (176, 151624), (192, 151771), (202, 151894), (204, 151921), (205, 151924), (206, 151927), (207, 151930), (214, 151987), (217, 152035), (227, 152095), (230, 152104), (241, 152215),

Gene: Capablanca\_258 Start: 147548, Stop: 150571, Start Num: 10

Candidate Starts for Capablanca\_258:

(2, 147266), (Start: 10 @147548 has 182 MA's), (Start: 17 @147614 has 1 MA's), (19, 147656), (21, 147680), (23, 147698), (28, 147737), (36, 147809), (37, 147824), (40, 147881), (42, 147887), (43, 147914), (47, 147989), (49, 148001), (57, 148076), (58, 148079), (67, 148187), (72, 148271), (75, 148298), (80, 148385), (82, 148415), (83, 148433), (86, 148457), (88, 148472), (97, 148763), (98, 148823), (100, 148871), (101, 148880), (103, 148952), (104, 149054), (105, 149099), (106, 149129), (108, 149192), (111, 149207), (125, 149366), (132, 149390), (134, 149447), (139, 149534), (148, 149642), (152, 149702), (164, 149813), (166, 149825), (168, 149834), (170, 149876), (176, 149933), (189, 150065), (192, 150080), (202, 150203), (204, 150230), (205, 150233), (206, 150236), (207, 150239), (214, 150296), (217, 150344), (227, 150404), (230, 150413), (241, 150524),

Gene: Caravan\_243 Start: 145598, Stop: 147814, Start Num: 10

Candidate Starts for Caravan\_243:

(2, 145316), (Start: 10 @145598 has 182 MA's), (Start: 17 @145664 has 1 MA's), (19, 145706), (21, 145730), (23, 145748), (28, 145787), (36, 145859), (37, 145874), (40, 145931), (42, 145937), (43, 145964), (47, 146039), (49, 146051), (57, 146126), (58, 146129), (67, 146237), (72, 146321), (75, 146348), (80, 146435), (125, 146609), (132, 146633), (134, 146690), (139, 146777), (148, 146885), (152, 146945), (164, 147056), (166, 147068), (168, 147077), (170, 147119), (176, 147176), (189, 147308), (192, 147323), (202, 147446), (204, 147473), (205, 147476), (206, 147479), (207, 147482), (214, 147539), (217, 147587), (227, 147647), (230, 147656), (241, 147767),

Gene: Catera\_242 Start: 144037, Stop: 147060, Start Num: 10

Candidate Starts for Catera\_242:

(2, 143755), (Start: 10 @144037 has 182 MA's), (Start: 17 @144103 has 1 MA's), (19, 144145), (21, 144169), (23, 144187), (28, 144226), (36, 144298), (37, 144313), (40, 144370), (42, 144376), (43, 144403), (47, 144478), (49, 144490), (57, 144565), (58, 144568), (67, 144676), (75, 144787), (80, 144874), (82, 144904), (83, 144922), (86, 144946), (88, 144961), (97, 145252), (98, 145312), (100, 145360), (101, 145369), (103, 145441), (104, 145543), (105, 145588), (106, 145618), (108, 145681), (111, 145696), (125, 145855), (132, 145879), (134, 145936), (139, 146023), (148, 146131), (152, 146191), (164, 146302), (166, 146314), (170, 146365), (176, 146422), (192, 146569), (202, 146692), (204, 146719), (205, 146722), (206, 146725), (207, 146728), (214, 146785), (217, 146833), (227, 146893), (230, 146902), (241, 147013),

Gene: Chargie21\_251 Start: 143792, Stop: 146815, Start Num: 10

Candidate Starts for Chargie21\_251:

(2, 143510), (Start: 10 @143792 has 182 MA's), (Start: 17 @143858 has 1 MA's), (19, 143900), (21, 143924), (23, 143942), (28, 143981), (36, 144053), (37, 144068), (40, 144125), (42, 144131), (43,

144158), (47, 144233), (49, 144245), (57, 144320), (58, 144323), (67, 144431), (72, 144515), (75, 144542), (80, 144629), (82, 144659), (83, 144677), (86, 144701), (88, 144716), (97, 145007), (98, 145067), (100, 145115), (101, 145124), (103, 145196), (104, 145298), (105, 145343), (106, 145373), (108, 145436), (111, 145451), (125, 145610), (132, 145634), (134, 145691), (139, 145778), (148, 145886), (152, 145946), (164, 146057), (166, 146069), (170, 146120), (176, 146177), (192, 146324), (202, 146447), (204, 146474), (205, 146477), (206, 146480), (207, 146483), (214, 146540), (217, 146588), (227, 146648), (230, 146657), (241, 146768),

Gene: CharlieB\_248 Start: 145060, Stop: 148083, Start Num: 10

Candidate Starts for CharlieB\_248:

(2, 144778), (Start: 10 @145060 has 182 MA's), (Start: 17 @145126 has 1 MA's), (19, 145168), (21, 145192), (23, 145210), (28, 145249), (36, 145321), (37, 145336), (40, 145393), (42, 145399), (43, 145426), (47, 145501), (49, 145513), (57, 145588), (58, 145591), (67, 145699), (72, 145783), (75, 145810), (80, 145897), (82, 145927), (83, 145945), (86, 145969), (88, 145984), (97, 146275), (98, 146335), (100, 146383), (101, 146392), (103, 146464), (104, 146566), (105, 146611), (106, 146641), (108, 146704), (111, 146719), (125, 146878), (132, 146902), (134, 146959), (139, 147046), (148, 147154), (152, 147214), (164, 147325), (166, 147337), (168, 147346), (170, 147388), (176, 147445), (189, 147577), (192, 147592), (202, 147715), (204, 147742), (205, 147745), (206, 147748), (207, 147751), (214, 147808), (217, 147856), (227, 147916), (230, 147925), (241, 148036),

Gene: ChaylaJr\_252 Start: 144734, Stop: 147757, Start Num: 10

Candidate Starts for ChaylaJr\_252:

(2, 144452), (Start: 10 @144734 has 182 MA's), (Start: 17 @144800 has 1 MA's), (19, 144842), (21, 144866), (23, 144884), (28, 144923), (36, 144995), (37, 145010), (40, 145067), (42, 145073), (43, 145100), (47, 145175), (49, 145187), (57, 145262), (58, 145265), (67, 145373), (72, 145457), (75, 145484), (80, 145571), (82, 145601), (83, 145619), (86, 145643), (88, 145658), (97, 145949), (98, 146009), (100, 146057), (101, 146066), (103, 146138), (104, 146240), (105, 146285), (106, 146315), (108, 146378), (111, 146393), (125, 146552), (132, 146576), (134, 146633), (139, 146720), (148, 146828), (152, 146888), (164, 146999), (166, 147011), (170, 147062), (176, 147119), (192, 147266), (202, 147389), (204, 147416), (205, 147419), (206, 147422), (207, 147425), (214, 147482), (217, 147530), (227, 147590), (230, 147599), (241, 147710),

Gene: CherryTomatoes\_175 Start: 126776, Stop: 128935, Start Num: 17

Candidate Starts for CherryTomatoes\_175:

(3, 126554), (4, 126557), (5, 126581), (Start: 13 @126731 has 2 MA's), (15, 126767), (Start: 17 @126776 has 1 MA's), (22, 126845), (28, 126899), (30, 126920), (36, 126971), (41, 127046), (42, 127049), (45, 127112), (48, 127160), (51, 127175), (57, 127238), (65, 127334), (67, 127349), (74, 127451), (75, 127460), (77, 127466), (80, 127547), (113, 127586), (116, 127622), (117, 127652), (128, 127733), (133, 127748), (135, 127802), (139, 127886), (141, 127895), (146, 127979), (147, 127982), (148, 127991), (150, 128021), (151, 128024), (155, 128123), (164, 128246), (170, 128309), (175, 128357), (181, 128432), (183, 128441), (206, 128660), (209, 128669), (219, 128780), (223, 128798), (226, 128822), (227, 128825), (232, 128864), (235, 128897),

Gene: ChickenPhender\_249 Start: 143490, Stop: 146513, Start Num: 10

Candidate Starts for ChickenPhender\_249:

(2, 143208), (Start: 10 @143490 has 182 MA's), (Start: 17 @143556 has 1 MA's), (19, 143598), (21, 143622), (23, 143640), (28, 143679), (36, 143751), (37, 143766), (40, 143823), (42, 143829), (43, 143856), (47, 143931), (49, 143943), (57, 144018), (58, 144021), (67, 144129), (72, 144213), (75, 144240), (80, 144327), (82, 144357), (83, 144375), (86, 144399), (88, 144414), (97, 144705), (98, 144765), (100, 144813), (101, 144822), (103, 144894), (104, 144996), (105, 145041), (106, 145071), (108, 145134), (111, 145149), (125, 145308), (132, 145332), (134, 145389), (139, 145476), (148, 145584), (152, 145644), (164, 145755), (166, 145767), (170, 145818), (176, 145875), (192, 146022), (202, 146145), (204, 146172), (205, 146175), (206, 146178), (207, 146181), (214, 146238), (217,

146286), (227, 146346), (230, 146355), (241, 146466),

Gene: Chomp\_252 Start: 146926, Stop: 149949, Start Num: 10

Candidate Starts for Chomp\_252:

(2, 146644), (Start: 10 @146926 has 182 MA's), (Start: 17 @146992 has 1 MA's), (19, 147034), (21, 147058), (23, 147076), (28, 147115), (36, 147187), (37, 147202), (40, 147259), (42, 147265), (43, 147292), (47, 147367), (49, 147379), (57, 147454), (58, 147457), (67, 147565), (72, 147649), (75, 147676), (80, 147763), (82, 147793), (83, 147811), (86, 147835), (88, 147850), (97, 148141), (98, 148201), (100, 148249), (101, 148258), (103, 148330), (104, 148432), (105, 148477), (106, 148507), (108, 148570), (111, 148585), (125, 148744), (132, 148768), (134, 148825), (139, 148912), (148, 149020), (164, 149191), (166, 149203), (170, 149254), (176, 149311), (192, 149458), (202, 149581), (204, 149608), (205, 149611), (206, 149614), (207, 149617), (214, 149674), (217, 149722), (227, 149782), (230, 149791), (241, 149902),

Gene: CindyLou\_254 Start: 147186, Stop: 150209, Start Num: 10

Candidate Starts for CindyLou\_254:

(2, 146904), (Start: 10 @147186 has 182 MA's), (Start: 17 @147252 has 1 MA's), (19, 147294), (21, 147318), (23, 147336), (28, 147375), (36, 147447), (37, 147462), (40, 147519), (42, 147525), (43, 147552), (47, 147627), (49, 147639), (57, 147714), (58, 147717), (67, 147825), (75, 147936), (80, 148023), (82, 148053), (83, 148071), (86, 148095), (88, 148110), (97, 148401), (98, 148461), (100, 148509), (101, 148518), (103, 148590), (104, 148692), (105, 148737), (106, 148767), (108, 148830), (111, 148845), (125, 149004), (132, 149028), (134, 149085), (139, 149172), (148, 149280), (164, 149451), (166, 149463), (170, 149514), (176, 149571), (192, 149718), (202, 149841), (204, 149868), (205, 149871), (206, 149874), (207, 149877), (214, 149934), (217, 149982), (227, 150042), (230, 150051), (241, 150162),

Gene: Cleatunium\_247 Start: 145196, Stop: 148219, Start Num: 10

Candidate Starts for Cleatunium\_247:

(2, 144914), (Start: 10 @145196 has 182 MA's), (Start: 17 @145262 has 1 MA's), (19, 145304), (21, 145328), (23, 145346), (28, 145385), (36, 145457), (37, 145472), (40, 145529), (42, 145535), (43, 145562), (47, 145637), (49, 145649), (57, 145724), (58, 145727), (67, 145835), (72, 145919), (75, 145946), (80, 146033), (82, 146063), (83, 146081), (86, 146105), (88, 146120), (97, 146411), (98, 146471), (100, 146519), (101, 146528), (102, 146552), (104, 146702), (105, 146747), (106, 146777), (108, 146840), (111, 146855), (125, 147014), (132, 147038), (134, 147095), (139, 147182), (148, 147290), (152, 147350), (164, 147461), (166, 147473), (168, 147482), (170, 147524), (176, 147581), (189, 147713), (192, 147728), (202, 147851), (204, 147878), (205, 147881), (206, 147884), (207, 147887), (214, 147944), (217, 147992), (227, 148052), (230, 148061), (241, 148172),

Gene: Colt\_244 Start: 148431, Stop: 151454, Start Num: 10

Candidate Starts for Colt\_244:

(Start: 10 @148431 has 182 MA's), (Start: 17 @148497 has 1 MA's), (19, 148539), (21, 148563), (23, 148581), (28, 148620), (36, 148692), (37, 148707), (40, 148764), (42, 148770), (43, 148797), (47, 148872), (49, 148884), (57, 148959), (58, 148962), (67, 149070), (72, 149154), (75, 149181), (80, 149268), (82, 149298), (83, 149316), (86, 149340), (88, 149355), (97, 149646), (98, 149706), (100, 149754), (101, 149763), (102, 149787), (104, 149937), (105, 149982), (106, 150012), (108, 150075), (111, 150090), (125, 150249), (132, 150273), (134, 150330), (139, 150417), (148, 150525), (152, 150585), (164, 150696), (166, 150708), (168, 150717), (170, 150759), (176, 150816), (192, 150963), (202, 151086), (204, 151113), (205, 151116), (206, 151119), (207, 151122), (214, 151179), (217, 151227), (227, 151287), (230, 151296), (241, 151407),

Gene: Concombres\_259 Start: 147531, Stop: 149747, Start Num: 10

Candidate Starts for Concombres\_259:

(2, 147249), (Start: 10 @147531 has 182 MA's), (Start: 17 @147597 has 1 MA's), (19, 147639), (21, 147663), (23, 147681), (28, 147720), (36, 147792), (37, 147807), (40, 147864), (42, 147870), (43, 147897), (47, 147972), (49, 147984), (57, 148059), (58, 148062), (67, 148170), (72, 148254), (75, 148281), (80, 148368), (125, 148542), (132, 148566), (134, 148623), (139, 148710), (148, 148818), (152, 148878), (164, 148989), (166, 149001), (168, 149010), (170, 149052), (176, 149109), (189, 149241), (192, 149256), (202, 149379), (204, 149406), (205, 149409), (206, 149412), (207, 149415), (214, 149472), (217, 149520), (227, 149580), (230, 149589), (241, 149700),

Gene: DTDevon\_254 Start: 147565, Stop: 149781, Start Num: 10

Candidate Starts for DTDevon\_254:

(2, 147283), (Start: 10 @147565 has 182 MA's), (Start: 17 @147631 has 1 MA's), (19, 147673), (21, 147697), (23, 147715), (28, 147754), (36, 147826), (37, 147841), (40, 147898), (42, 147904), (43, 147931), (47, 148006), (49, 148018), (57, 148093), (58, 148096), (67, 148204), (72, 148288), (75, 148315), (80, 148402), (125, 148576), (132, 148600), (134, 148657), (139, 148744), (148, 148852), (152, 148912), (164, 149023), (166, 149035), (168, 149044), (170, 149086), (176, 149143), (189, 149275), (192, 149290), (202, 149413), (204, 149440), (205, 149443), (206, 149446), (207, 149449), (214, 149506), (217, 149554), (227, 149614), (230, 149623), (241, 149734),

Gene: Daffodil\_259 Start: 145852, Stop: 148068, Start Num: 10

Candidate Starts for Daffodil\_259:

(2, 145570), (Start: 10 @145852 has 182 MA's), (Start: 17 @145918 has 1 MA's), (19, 145960), (21, 145984), (23, 146002), (28, 146041), (36, 146113), (37, 146128), (40, 146185), (42, 146191), (43, 146218), (47, 146293), (49, 146305), (57, 146380), (58, 146383), (67, 146491), (72, 146575), (75, 146602), (80, 146689), (125, 146863), (132, 146887), (134, 146944), (139, 147031), (148, 147139), (152, 147199), (164, 147310), (166, 147322), (168, 147331), (170, 147373), (176, 147430), (189, 147562), (192, 147577), (202, 147700), (204, 147727), (205, 147730), (206, 147733), (207, 147736), (214, 147793), (217, 147841), (227, 147901), (230, 147910), (241, 148021),

Gene: Dandelion\_259 Start: 148386, Stop: 150602, Start Num: 10

Candidate Starts for Dandelion\_259:

(2, 148104), (Start: 10 @148386 has 182 MA's), (Start: 17 @148452 has 1 MA's), (19, 148494), (21, 148518), (23, 148536), (28, 148575), (36, 148647), (37, 148662), (40, 148719), (42, 148725), (43, 148752), (47, 148827), (49, 148839), (57, 148914), (58, 148917), (67, 149025), (72, 149109), (75, 149136), (80, 149223), (125, 149397), (132, 149421), (134, 149478), (139, 149565), (148, 149673), (152, 149733), (164, 149844), (166, 149856), (168, 149865), (170, 149907), (176, 149964), (189, 150096), (192, 150111), (202, 150234), (204, 150261), (205, 150264), (206, 150267), (207, 150270), (214, 150327), (217, 150375), (227, 150435), (230, 150444), (241, 150555),

Gene: Darko\_253 Start: 145510, Stop: 148533, Start Num: 10

Candidate Starts for Darko\_253:

(2, 145228), (Start: 10 @145510 has 182 MA's), (Start: 17 @145576 has 1 MA's), (19, 145618), (21, 145642), (23, 145660), (28, 145699), (36, 145771), (37, 145786), (40, 145843), (42, 145849), (43, 145876), (47, 145951), (49, 145963), (57, 146038), (58, 146041), (67, 146149), (75, 146260), (80, 146347), (82, 146377), (83, 146395), (86, 146419), (88, 146434), (97, 146725), (98, 146785), (100, 146833), (101, 146842), (102, 146866), (104, 147016), (105, 147061), (106, 147091), (108, 147154), (111, 147169), (125, 147328), (132, 147352), (134, 147409), (139, 147496), (148, 147604), (152, 147664), (164, 147775), (166, 147787), (168, 147796), (170, 147838), (176, 147895), (189, 148027), (192, 148042), (202, 148165), (204, 148192), (205, 148195), (206, 148198), (207, 148201), (214, 148258), (217, 148306), (227, 148366), (230, 148375), (241, 148486),

Gene: DeejaClivia\_240 Start: 143253, Stop: 145469, Start Num: 10

Candidate Starts for DeejaClivia\_240:

(Start: 10 @143253 has 182 MA's), (Start: 17 @143319 has 1 MA's), (19, 143361), (21, 143385), (23, 143403), (28, 143442), (36, 143514), (37, 143529), (40, 143586), (42, 143592), (43, 143619), (47, 143694), (49, 143706), (57, 143781), (58, 143784), (67, 143892), (72, 143976), (75, 144003), (80, 144090), (125, 144264), (132, 144288), (134, 144345), (139, 144432), (148, 144540), (152, 144600), (164, 144711), (166, 144723), (170, 144774), (176, 144831), (189, 144963), (192, 144978), (202, 145101), (204, 145128), (205, 145131), (206, 145134), (207, 145137), (214, 145194), (217, 145242), (227, 145302), (230, 145311), (241, 145422),

Gene: Delilah\_251 Start: 145945, Stop: 148161, Start Num: 10

Candidate Starts for Delilah\_251:

(2, 145663), (Start: 10 @145945 has 182 MA's), (Start: 17 @146011 has 1 MA's), (19, 146053), (21, 146077), (23, 146095), (28, 146134), (36, 146206), (37, 146221), (40, 146278), (42, 146284), (43, 146311), (47, 146386), (49, 146398), (57, 146473), (58, 146476), (67, 146584), (72, 146668), (75, 146695), (80, 146782), (125, 146956), (132, 146980), (134, 147037), (139, 147124), (148, 147232), (152, 147292), (164, 147403), (166, 147415), (168, 147424), (170, 147466), (176, 147523), (189, 147655), (192, 147670), (202, 147793), (204, 147820), (205, 147823), (206, 147826), (207, 147829), (214, 147886), (217, 147934), (227, 147994), (230, 148003), (241, 148114),

Gene: Delylah\_255 Start: 146222, Stop: 148438, Start Num: 10

Candidate Starts for Delylah\_255:

(2, 145940), (Start: 10 @146222 has 182 MA's), (Start: 17 @146288 has 1 MA's), (19, 146330), (21, 146354), (23, 146372), (28, 146411), (36, 146483), (37, 146498), (40, 146555), (42, 146561), (43, 146588), (47, 146663), (49, 146675), (57, 146750), (58, 146753), (67, 146861), (72, 146945), (75, 146972), (80, 147059), (125, 147233), (132, 147257), (134, 147314), (139, 147401), (148, 147509), (152, 147569), (164, 147680), (166, 147692), (168, 147701), (170, 147743), (176, 147800), (189, 147932), (192, 147947), (202, 148070), (204, 148097), (205, 148100), (206, 148103), (207, 148106), (214, 148163), (217, 148211), (227, 148271), (230, 148280), (241, 148391),

Gene: Demodog\_261 Start: 147541, Stop: 149757, Start Num: 10

Candidate Starts for Demodog\_261:

(2, 147259), (Start: 10 @147541 has 182 MA's), (Start: 17 @147607 has 1 MA's), (19, 147649), (21, 147673), (23, 147691), (28, 147730), (36, 147802), (37, 147817), (40, 147874), (42, 147880), (43, 147907), (47, 147982), (49, 147994), (57, 148069), (58, 148072), (67, 148180), (72, 148264), (75, 148291), (80, 148378), (125, 148552), (132, 148576), (134, 148633), (139, 148720), (148, 148828), (152, 148888), (164, 148999), (166, 149011), (168, 149020), (170, 149062), (176, 149119), (189, 149251), (192, 149266), (202, 149389), (204, 149416), (205, 149419), (206, 149422), (207, 149425), (214, 149482), (217, 149530), (227, 149590), (230, 149599), (241, 149710),

Gene: Derek\_249 Start: 146203, Stop: 149226, Start Num: 10

Candidate Starts for Derek\_249:

(2, 145921), (Start: 10 @146203 has 182 MA's), (Start: 17 @146269 has 1 MA's), (19, 146311), (21, 146335), (23, 146353), (28, 146392), (36, 146464), (37, 146479), (40, 146536), (42, 146542), (43, 146569), (47, 146644), (49, 146656), (57, 146731), (58, 146734), (67, 146842), (72, 146926), (75, 146953), (80, 147040), (82, 147070), (83, 147088), (86, 147112), (88, 147127), (97, 147418), (98, 147478), (100, 147526), (101, 147535), (103, 147607), (104, 147709), (105, 147754), (106, 147784), (108, 147847), (111, 147862), (125, 148021), (132, 148045), (134, 148102), (139, 148189), (148, 148297), (152, 148357), (164, 148468), (166, 148480), (168, 148489), (170, 148531), (176, 148588), (189, 148720), (192, 148735), (202, 148858), (204, 148885), (205, 148888), (206, 148891), (207, 148894), (214, 148951), (217, 148999), (227, 149059), (230, 149068), (241, 149179),

Gene: Dessert\_250 Start: 145202, Stop: 148225, Start Num: 10

Candidate Starts for Dessert\_250:

(2, 144920), (Start: 10 @145202 has 182 MA's), (Start: 17 @145268 has 1 MA's), (19, 145310), (21, 145334), (23, 145352), (28, 145391), (36, 145463), (37, 145478), (40, 145535), (42, 145541), (43, 145568), (47, 145643), (49, 145655), (57, 145730), (58, 145733), (67, 145841), (75, 145952), (80, 146039), (82, 146069), (83, 146087), (86, 146111), (88, 146126), (97, 146417), (98, 146477), (100, 146525), (101, 146534), (103, 146606), (104, 146708), (105, 146753), (106, 146783), (108, 146846), (111, 146861), (125, 147020), (132, 147044), (134, 147101), (139, 147188), (148, 147296), (164, 147467), (166, 147479), (170, 147530), (176, 147587), (192, 147734), (202, 147857), (204, 147884), (205, 147887), (206, 147890), (207, 147893), (214, 147950), (217, 147998), (227, 148058), (230, 148067), (241, 148178),

Gene: Dietrick\_242 Start: 144066, Stop: 147089, Start Num: 10

Candidate Starts for Dietrick\_242:

(2, 143784), (Start: 10 @144066 has 182 MA's), (Start: 17 @144132 has 1 MA's), (19, 144174), (21, 144198), (23, 144216), (28, 144255), (36, 144327), (37, 144342), (40, 144399), (42, 144405), (43, 144432), (47, 144507), (49, 144519), (57, 144594), (58, 144597), (67, 144705), (75, 144816), (80, 144903), (82, 144933), (83, 144951), (86, 144975), (88, 144990), (97, 145281), (98, 145341), (100, 145389), (101, 145398), (103, 145470), (104, 145572), (105, 145617), (106, 145647), (108, 145710), (111, 145725), (125, 145884), (132, 145908), (134, 145965), (139, 146052), (148, 146160), (152, 146220), (164, 146331), (166, 146343), (170, 146394), (176, 146451), (192, 146598), (202, 146721), (204, 146748), (205, 146751), (206, 146754), (207, 146757), (214, 146814), (217, 146862), (227, 146922), (230, 146931), (241, 147042),

Gene: DirtMonster\_242 Start: 144798, Stop: 147821, Start Num: 10

Candidate Starts for DirtMonster\_242:

(2, 144516), (Start: 10 @144798 has 182 MA's), (Start: 17 @144864 has 1 MA's), (19, 144906), (21, 144930), (23, 144948), (28, 144987), (36, 145059), (37, 145074), (40, 145131), (42, 145137), (43, 145164), (47, 145239), (49, 145251), (57, 145326), (58, 145329), (67, 145437), (72, 145521), (75, 145548), (80, 145635), (83, 145683), (85, 145698), (86, 145707), (88, 145722), (97, 146013), (98, 146073), (100, 146121), (101, 146130), (102, 146154), (104, 146304), (105, 146349), (106, 146379), (108, 146442), (111, 146457), (125, 146616), (132, 146640), (134, 146697), (139, 146784), (148, 146892), (152, 146952), (164, 147063), (166, 147075), (170, 147126), (176, 147183), (192, 147330), (202, 147453), (204, 147480), (205, 147483), (206, 147486), (207, 147489), (214, 147546), (217, 147594), (227, 147654), (230, 147663), (241, 147774),

Gene: Domi\_247 Start: 145405, Stop: 148428, Start Num: 10

Candidate Starts for Domi\_247:

(2, 145123), (Start: 10 @145405 has 182 MA's), (Start: 17 @145471 has 1 MA's), (19, 145513), (21, 145537), (23, 145555), (28, 145594), (36, 145666), (37, 145681), (40, 145738), (42, 145744), (43, 145771), (47, 145846), (49, 145858), (57, 145933), (58, 145936), (67, 146044), (72, 146128), (75, 146155), (80, 146242), (82, 146272), (83, 146290), (86, 146314), (88, 146329), (97, 146620), (98, 146680), (100, 146728), (101, 146737), (102, 146761), (104, 146911), (105, 146956), (106, 146986), (108, 147049), (111, 147064), (125, 147223), (132, 147247), (134, 147304), (139, 147391), (148, 147499), (152, 147559), (164, 147670), (166, 147682), (170, 147733), (176, 147790), (192, 147937), (202, 148060), (204, 148087), (205, 148090), (206, 148093), (207, 148096), (214, 148153), (217, 148201), (227, 148261), (230, 148270), (241, 148381),

Gene: DrPhinkDaddy\_250 Start: 146630, Stop: 148846, Start Num: 10

Candidate Starts for DrPhinkDaddy\_250:

(2, 146348), (Start: 10 @146630 has 182 MA's), (Start: 17 @146696 has 1 MA's), (19, 146738), (21, 146762), (23, 146780), (28, 146819), (36, 146891), (37, 146906), (40, 146963), (42, 146969), (43, 146996), (47, 147071), (49, 147083), (57, 147158), (58, 147161), (67, 147269), (72, 147353), (75, 147380), (80, 147467), (125, 147641), (132, 147665), (134, 147722), (139, 147809), (148, 147917), (152, 147977), (164, 148088), (166, 148100), (168, 148109), (170, 148151), (176, 148208), (189,

148340), (192, 148355), (202, 148478), (204, 148505), (205, 148508), (206, 148511), (207, 148514), (214, 148571), (217, 148619), (227, 148679), (230, 148688), (241, 148799),

Gene: Drazdys\_250 Start: 146210, Stop: 149233, Start Num: 10

Candidate Starts for Drazdys\_250:

(2, 145928), (Start: 10 @146210 has 182 MA's), (Start: 17 @146276 has 1 MA's), (19, 146318), (21, 146342), (23, 146360), (28, 146399), (36, 146471), (37, 146486), (40, 146543), (42, 146549), (43, 146576), (47, 146651), (49, 146663), (57, 146738), (58, 146741), (67, 146849), (72, 146933), (75, 146960), (80, 147047), (82, 147077), (83, 147095), (86, 147119), (88, 147134), (97, 147425), (98, 147485), (100, 147533), (101, 147542), (103, 147614), (104, 147716), (105, 147761), (106, 147791), (108, 147854), (111, 147869), (125, 148028), (132, 148052), (134, 148109), (139, 148196), (148, 148304), (152, 148364), (164, 148475), (166, 148487), (168, 148496), (170, 148538), (176, 148595), (189, 148727), (192, 148742), (202, 148865), (204, 148892), (205, 148895), (206, 148898), (207, 148901), (214, 148958), (217, 149006), (227, 149066), (230, 149075), (241, 149186),

Gene: Duckfeet\_247 Start: 145007, Stop: 148030, Start Num: 10

Candidate Starts for Duckfeet\_247:

(Start: 10 @145007 has 182 MA's), (Start: 17 @145073 has 1 MA's), (19, 145115), (21, 145139), (23, 145157), (28, 145196), (36, 145268), (37, 145283), (40, 145340), (42, 145346), (43, 145373), (47, 145448), (49, 145460), (57, 145535), (58, 145538), (67, 145646), (72, 145730), (75, 145757), (80, 145844), (82, 145874), (83, 145892), (86, 145916), (88, 145931), (97, 146222), (98, 146282), (100, 146330), (101, 146339), (102, 146363), (104, 146513), (105, 146558), (106, 146588), (108, 146651), (111, 146666), (125, 146825), (132, 146849), (134, 146906), (139, 146993), (148, 147101), (152, 147161), (164, 147272), (166, 147284), (168, 147293), (170, 147335), (176, 147392), (189, 147524), (192, 147539), (202, 147662), (204, 147689), (205, 147692), (206, 147695), (207, 147698), (214, 147755), (217, 147803), (227, 147863), (230, 147872), (241, 147983),

Gene: E3\_gp5 Start: 1661, Stop: 3724, Start Num: 9

Candidate Starts for E3\_gp5:

(6, 1604), (Start: 9 @1661 has 2 MA's), (14, 1709), (28, 1853), (35, 1919), (36, 1925), (38, 1949), (42, 2003), (45, 2066), (55, 2159), (61, 2231), (62, 2246), (65, 2288), (70, 2339), (71, 2345), (72, 2387), (73, 2393), (75, 2414), (80, 2501), (115, 2570), (116, 2576), (117, 2603), (128, 2684), (133, 2699), (136, 2744), (139, 2792), (148, 2897), (153, 3008), (168, 3089), (169, 3122), (174, 3167), (184, 3266), (192, 3338), (201, 3428), (205, 3479), (211, 3533), (213, 3545), (218, 3605), (220, 3614), (221, 3617), (231, 3671),

Gene: ET08\_239 Start: 144534, Stop: 147557, Start Num: 10

Candidate Starts for ET08\_239:

(Start: 10 @144534 has 182 MA's), (Start: 17 @144600 has 1 MA's), (19, 144642), (21, 144666), (23, 144684), (28, 144723), (36, 144795), (37, 144810), (40, 144867), (42, 144873), (43, 144900), (47, 144975), (49, 144987), (57, 145062), (58, 145065), (67, 145173), (72, 145257), (75, 145284), (80, 145371), (82, 145401), (83, 145419), (86, 145443), (88, 145458), (97, 145749), (98, 145809), (100, 145857), (101, 145866), (102, 145890), (104, 146040), (105, 146085), (106, 146115), (108, 146178), (111, 146193), (125, 146352), (132, 146376), (134, 146433), (139, 146520), (148, 146628), (152, 146688), (164, 146799), (166, 146811), (168, 146820), (170, 146862), (176, 146919), (189, 147051), (192, 147066), (202, 147189), (204, 147216), (205, 147219), (206, 147222), (207, 147225), (214, 147282), (217, 147330), (227, 147390), (230, 147399), (241, 147510),

Gene: EasyJones\_254 Start: 144586, Stop: 147609, Start Num: 10

Candidate Starts for EasyJones\_254:

(2, 144304), (Start: 10 @144586 has 182 MA's), (Start: 17 @144652 has 1 MA's), (19, 144694), (21, 144718), (23, 144736), (28, 144775), (36, 144847), (37, 144862), (40, 144919), (42, 144925), (43, 144952), (47, 145027), (49, 145039), (57, 145114), (58, 145117), (67, 145225), (72, 145309), (75,

145336), (80, 145423), (82, 145453), (83, 145471), (86, 145495), (88, 145510), (97, 145801), (98, 145861), (100, 145909), (101, 145918), (103, 145990), (104, 146092), (105, 146137), (106, 146167), (108, 146230), (111, 146245), (125, 146404), (132, 146428), (134, 146485), (139, 146572), (148, 146680), (152, 146740), (164, 146851), (166, 146863), (170, 146914), (176, 146971), (192, 147118), (202, 147241), (204, 147268), (205, 147271), (206, 147274), (207, 147277), (214, 147334), (217, 147382), (227, 147442), (230, 147451), (241, 147562),

Gene: EggyFarm\_261 Start: 147425, Stop: 149641, Start Num: 10

Candidate Starts for EggyFarm\_261:

(2, 147143), (Start: 10 @147425 has 182 MA's), (Start: 17 @147491 has 1 MA's), (19, 147533), (21, 147557), (23, 147575), (28, 147614), (36, 147686), (37, 147701), (40, 147758), (42, 147764), (43, 147791), (47, 147866), (49, 147878), (57, 147953), (58, 147956), (67, 148064), (72, 148148), (75, 148175), (80, 148262), (125, 148436), (132, 148460), (134, 148517), (139, 148604), (148, 148712), (152, 148772), (164, 148883), (166, 148895), (168, 148904), (170, 148946), (176, 149003), (190, 149141), (192, 149150), (202, 149273), (204, 149300), (205, 149303), (206, 149306), (207, 149309), (214, 149366), (217, 149414), (227, 149474), (230, 149483), (241, 149594),

Gene: EmToTheThree\_254 Start: 146418, Stop: 148634, Start Num: 10

Candidate Starts for EmToTheThree\_254:

(2, 146136), (Start: 10 @146418 has 182 MA's), (Start: 17 @146484 has 1 MA's), (19, 146526), (21, 146550), (23, 146568), (28, 146607), (36, 146679), (37, 146694), (40, 146751), (42, 146757), (43, 146784), (47, 146859), (49, 146871), (57, 146946), (58, 146949), (67, 147057), (72, 147141), (75, 147168), (80, 147255), (125, 147429), (132, 147453), (134, 147510), (139, 147597), (148, 147705), (152, 147765), (164, 147876), (166, 147888), (168, 147897), (170, 147939), (176, 147996), (189, 148128), (192, 148143), (202, 148266), (204, 148293), (205, 148296), (206, 148299), (207, 148302), (214, 148359), (217, 148407), (227, 148467), (230, 148476), (241, 148587),

Gene: EmmaElysia\_258 Start: 147081, Stop: 150104, Start Num: 10

Candidate Starts for EmmaElysia\_258:

(2, 146799), (Start: 10 @147081 has 182 MA's), (Start: 17 @147147 has 1 MA's), (19, 147189), (21, 147213), (23, 147231), (28, 147270), (36, 147342), (37, 147357), (40, 147414), (42, 147420), (43, 147447), (47, 147522), (49, 147534), (57, 147609), (58, 147612), (67, 147720), (75, 147831), (80, 147918), (82, 147948), (83, 147966), (86, 147990), (88, 148005), (97, 148296), (98, 148356), (100, 148404), (101, 148413), (103, 148485), (104, 148587), (105, 148632), (106, 148662), (108, 148725), (111, 148740), (125, 148899), (132, 148923), (134, 148980), (139, 149067), (148, 149175), (152, 149235), (164, 149346), (166, 149358), (170, 149409), (176, 149466), (192, 149613), (202, 149736), (204, 149763), (205, 149766), (206, 149769), (207, 149772), (214, 149829), (217, 149877), (227, 149937), (230, 149946), (241, 150057),

Gene: Erdmann\_255 Start: 146386, Stop: 148602, Start Num: 10

Candidate Starts for Erdmann\_255:

(2, 146104), (Start: 10 @146386 has 182 MA's), (Start: 17 @146452 has 1 MA's), (19, 146494), (21, 146518), (23, 146536), (28, 146575), (36, 146647), (37, 146662), (40, 146719), (42, 146725), (43, 146752), (47, 146827), (49, 146839), (57, 146914), (58, 146917), (67, 147025), (72, 147109), (75, 147136), (80, 147223), (125, 147397), (132, 147421), (134, 147478), (139, 147565), (148, 147673), (152, 147733), (164, 147844), (166, 147856), (168, 147865), (170, 147907), (176, 147964), (189, 148096), (192, 148111), (202, 148234), (204, 148261), (205, 148264), (206, 148267), (207, 148270), (214, 148327), (217, 148375), (227, 148435), (230, 148444), (241, 148555),

Gene: ErnieJ\_247 Start: 143214, Stop: 146237, Start Num: 10

Candidate Starts for ErnieJ\_247:

(Start: 10 @143214 has 182 MA's), (Start: 17 @143280 has 1 MA's), (19, 143322), (21, 143346), (23, 143364), (28, 143403), (36, 143475), (37, 143490), (40, 143547), (42, 143553), (43, 143580), (47,

143655), (49, 143667), (57, 143742), (58, 143745), (67, 143853), (72, 143937), (75, 143964), (80, 144051), (82, 144081), (83, 144099), (86, 144123), (88, 144138), (97, 144429), (98, 144489), (100, 144537), (101, 144546), (103, 144618), (104, 144720), (105, 144765), (106, 144795), (108, 144858), (111, 144873), (125, 145032), (132, 145056), (134, 145113), (139, 145200), (148, 145308), (152, 145368), (164, 145479), (166, 145491), (170, 145542), (176, 145599), (192, 145746), (202, 145869), (204, 145896), (205, 145899), (206, 145902), (207, 145905), (214, 145962), (217, 146010), (227, 146070), (230, 146079), (241, 146190),

Gene: Essence\_251 Start: 145422, Stop: 148445, Start Num: 10

Candidate Starts for Essence\_251:

(2, 145140), (Start: 10 @145422 has 182 MA's), (Start: 17 @145488 has 1 MA's), (19, 145530), (21, 145554), (23, 145572), (28, 145611), (36, 145683), (37, 145698), (40, 145755), (42, 145761), (43, 145788), (47, 145863), (49, 145875), (57, 145950), (58, 145953), (67, 146061), (72, 146145), (75, 146172), (80, 146259), (82, 146289), (83, 146307), (86, 146331), (88, 146346), (97, 146637), (98, 146697), (100, 146745), (101, 146754), (103, 146826), (104, 146928), (105, 146973), (106, 147003), (108, 147066), (111, 147081), (125, 147240), (132, 147264), (134, 147321), (139, 147408), (148, 147516), (152, 147576), (164, 147687), (166, 147699), (170, 147750), (176, 147807), (192, 147954), (202, 148077), (204, 148104), (205, 148107), (206, 148110), (207, 148113), (214, 148170), (217, 148218), (227, 148278), (230, 148287), (241, 148398),

Gene: Ewok\_252 Start: 145880, Stop: 148096, Start Num: 10

Candidate Starts for Ewok\_252:

(2, 145598), (Start: 10 @145880 has 182 MA's), (Start: 17 @145946 has 1 MA's), (19, 145988), (21, 146012), (23, 146030), (28, 146069), (36, 146141), (37, 146156), (40, 146213), (42, 146219), (43, 146246), (47, 146321), (49, 146333), (57, 146408), (58, 146411), (67, 146519), (72, 146603), (75, 146630), (80, 146717), (125, 146891), (132, 146915), (134, 146972), (139, 147059), (148, 147167), (152, 147227), (164, 147338), (166, 147350), (168, 147359), (170, 147401), (176, 147458), (189, 147590), (192, 147605), (202, 147728), (204, 147755), (205, 147758), (206, 147761), (207, 147764), (214, 147821), (217, 147869), (227, 147929), (230, 147938), (241, 148049),

Gene: Finch\_1 Start: 1, Stop: 2109, Start Num: 9

Candidate Starts for Finch\_1:

(Start: 9 @1 has 2 MA's), (29, 214), (30, 220), (43, 376), (45, 412), (46, 448), (52, 478), (53, 481), (67, 649), (70, 685), (71, 691), (75, 760), (78, 799), (80, 847), (114, 898), (116, 922), (128, 1042), (130, 1048), (139, 1150), (140, 1153), (143, 1189), (148, 1255), (149, 1267), (162, 1423), (164, 1435), (165, 1441), (177, 1585), (178, 1588), (187, 1651), (188, 1669), (196, 1762), (199, 1780), (202, 1816), (203, 1831), (206, 1849), (208, 1855), (211, 1900), (216, 1939), (228, 2014), (234, 2071),

Gene: Fixie\_254 Start: 146651, Stop: 149674, Start Num: 10

Candidate Starts for Fixie\_254:

(2, 146369), (Start: 10 @146651 has 182 MA's), (Start: 17 @146717 has 1 MA's), (19, 146759), (21, 146783), (23, 146801), (28, 146840), (36, 146912), (37, 146927), (40, 146984), (42, 146990), (43, 147017), (47, 147092), (49, 147104), (57, 147179), (58, 147182), (67, 147290), (75, 147401), (80, 147488), (82, 147518), (83, 147536), (86, 147560), (88, 147575), (97, 147866), (98, 147926), (100, 147974), (101, 147983), (103, 148055), (104, 148157), (105, 148202), (106, 148232), (108, 148295), (111, 148310), (125, 148469), (132, 148493), (134, 148550), (139, 148637), (148, 148745), (152, 148805), (164, 148916), (166, 148928), (170, 148979), (176, 149036), (189, 149168), (192, 149183), (202, 149306), (204, 149333), (205, 149336), (206, 149339), (207, 149342), (214, 149399), (217, 149447), (227, 149507), (230, 149516), (241, 149627),

Gene: Flabslab\_248 Start: 142479, Stop: 145502, Start Num: 10

Candidate Starts for Flabslab\_248:

(2, 142197), (Start: 10 @142479 has 182 MA's), (Start: 17 @142545 has 1 MA's), (19, 142587), (21, 142611), (23, 142629), (28, 142668), (36, 142740), (37, 142755), (40, 142812), (42, 142818), (43, 142845), (47, 142920), (49, 142932), (57, 143007), (58, 143010), (67, 143118), (72, 143202), (75, 143229), (80, 143316), (82, 143346), (83, 143364), (86, 143388), (88, 143403), (97, 143694), (98, 143754), (100, 143802), (101, 143811), (103, 143883), (104, 143985), (105, 144030), (106, 144060), (108, 144123), (111, 144138), (125, 144297), (132, 144321), (134, 144378), (139, 144465), (148, 144573), (152, 144633), (164, 144744), (166, 144756), (168, 144765), (170, 144807), (176, 144864), (189, 144996), (192, 145011), (202, 145134), (204, 145161), (205, 145164), (206, 145167), (207, 145170), (214, 145227), (217, 145275), (227, 145335), (230, 145344), (241, 145455),

Gene: Fludd\_253 Start: 144298, Stop: 147321, Start Num: 10

Candidate Starts for Fludd\_253:

(2, 144016), (Start: 10 @144298 has 182 MA's), (Start: 17 @144364 has 1 MA's), (19, 144406), (21, 144430), (23, 144448), (28, 144487), (36, 144559), (37, 144574), (40, 144631), (42, 144637), (43, 144664), (47, 144739), (49, 144751), (57, 144826), (58, 144829), (67, 144937), (75, 145048), (80, 145135), (82, 145165), (83, 145183), (86, 145207), (88, 145222), (97, 145513), (98, 145573), (100, 145621), (101, 145630), (103, 145702), (104, 145804), (105, 145849), (106, 145879), (108, 145942), (111, 145957), (125, 146116), (132, 146140), (134, 146197), (139, 146284), (148, 146392), (164, 146563), (166, 146575), (170, 146626), (176, 146683), (192, 146830), (202, 146953), (204, 146980), (205, 146983), (206, 146986), (207, 146989), (214, 147046), (217, 147094), (227, 147154), (230, 147163), (241, 147274),

Gene: Fongie\_253 Start: 145878, Stop: 148094, Start Num: 10

Candidate Starts for Fongie\_253:

(2, 145596), (Start: 10 @145878 has 182 MA's), (Start: 17 @145944 has 1 MA's), (19, 145986), (21, 146010), (23, 146028), (28, 146067), (36, 146139), (37, 146154), (40, 146211), (42, 146217), (43, 146244), (47, 146319), (49, 146331), (57, 146406), (58, 146409), (67, 146517), (72, 146601), (75, 146628), (80, 146715), (125, 146889), (132, 146913), (134, 146970), (139, 147057), (148, 147165), (152, 147225), (164, 147336), (166, 147348), (168, 147357), (170, 147399), (176, 147456), (189, 147588), (192, 147603), (202, 147726), (204, 147753), (205, 147756), (206, 147759), (207, 147762), (214, 147819), (217, 147867), (227, 147927), (230, 147936), (241, 148047),

Gene: FoxtrotP1\_252 Start: 146972, Stop: 149188, Start Num: 10

Candidate Starts for FoxtrotP1\_252:

(2, 146690), (Start: 10 @146972 has 182 MA's), (Start: 17 @147038 has 1 MA's), (19, 147080), (21, 147104), (23, 147122), (28, 147161), (36, 147233), (37, 147248), (40, 147305), (42, 147311), (43, 147338), (47, 147413), (49, 147425), (57, 147500), (58, 147503), (67, 147611), (72, 147695), (75, 147722), (80, 147809), (125, 147983), (132, 148007), (134, 148064), (139, 148151), (148, 148259), (152, 148319), (164, 148430), (166, 148442), (168, 148451), (170, 148493), (176, 148550), (189, 148682), (192, 148697), (202, 148820), (204, 148847), (205, 148850), (206, 148853), (207, 148856), (214, 148913), (217, 148961), (227, 149021), (230, 149030), (241, 149141),

Gene: FrayBell\_256 Start: 144429, Stop: 147452, Start Num: 10

Candidate Starts for FrayBell\_256:

(2, 144147), (Start: 10 @144429 has 182 MA's), (Start: 17 @144495 has 1 MA's), (19, 144537), (21, 144561), (23, 144579), (28, 144618), (36, 144690), (37, 144705), (40, 144762), (42, 144768), (43, 144795), (47, 144870), (49, 144882), (57, 144957), (58, 144960), (67, 145068), (72, 145152), (75, 145179), (80, 145266), (82, 145296), (83, 145314), (86, 145338), (88, 145353), (97, 145644), (98, 145704), (100, 145752), (101, 145761), (102, 145785), (104, 145935), (105, 145980), (106, 146010), (108, 146073), (111, 146088), (125, 146247), (132, 146271), (134, 146328), (139, 146415), (148, 146523), (152, 146583), (164, 146694), (166, 146706), (168, 146715), (170, 146757), (176, 146814), (189, 146946), (192, 146961), (202, 147084), (204, 147111), (205, 147114), (206, 147117), (207, 147120), (214, 147177), (217, 147225), (227, 147285), (230, 147294), (241, 147405),

Gene: FudgeTart\_249 Start: 145476, Stop: 147692, Start Num: 10

Candidate Starts for FudgeTart\_249:

(2, 145194), (Start: 10 @145476 has 182 MA's), (Start: 17 @145542 has 1 MA's), (19, 145584), (21, 145608), (23, 145626), (28, 145665), (36, 145737), (37, 145752), (40, 145809), (42, 145815), (43, 145842), (47, 145917), (49, 145929), (57, 146004), (58, 146007), (67, 146115), (72, 146199), (75, 146226), (80, 146313), (125, 146487), (132, 146511), (134, 146568), (139, 146655), (148, 146763), (152, 146823), (164, 146934), (166, 146946), (168, 146955), (170, 146997), (176, 147054), (189, 147186), (192, 147201), (202, 147324), (204, 147351), (205, 147354), (206, 147357), (207, 147360), (214, 147417), (217, 147465), (227, 147525), (230, 147534), (241, 147645),

Gene: Gabriel\_256 Start: 144457, Stop: 147480, Start Num: 10

Candidate Starts for Gabriel\_256:

(2, 144175), (Start: 10 @144457 has 182 MA's), (Start: 17 @144523 has 1 MA's), (19, 144565), (21, 144589), (23, 144607), (28, 144646), (36, 144718), (37, 144733), (40, 144790), (42, 144796), (43, 144823), (47, 144898), (49, 144910), (57, 144985), (58, 144988), (67, 145096), (72, 145180), (75, 145207), (80, 145294), (82, 145324), (83, 145342), (86, 145366), (88, 145381), (97, 145672), (98, 145732), (100, 145780), (101, 145789), (103, 145861), (104, 145963), (105, 146008), (106, 146038), (108, 146101), (111, 146116), (125, 146275), (132, 146299), (134, 146356), (139, 146443), (148, 146551), (152, 146611), (164, 146722), (166, 146734), (168, 146743), (170, 146785), (176, 146842), (189, 146974), (192, 146989), (202, 147112), (204, 147139), (205, 147142), (206, 147145), (207, 147148), (214, 147205), (217, 147253), (227, 147313), (230, 147322), (241, 147433),

Gene: Gamgam\_255 Start: 144814, Stop: 147837, Start Num: 10

Candidate Starts for Gamgam\_255:

(2, 144532), (Start: 10 @144814 has 182 MA's), (Start: 17 @144880 has 1 MA's), (19, 144922), (21, 144946), (23, 144964), (28, 145003), (36, 145075), (37, 145090), (40, 145147), (42, 145153), (43, 145180), (47, 145255), (49, 145267), (57, 145342), (58, 145345), (67, 145453), (75, 145564), (80, 145651), (82, 145681), (83, 145699), (86, 145723), (88, 145738), (97, 146029), (98, 146089), (100, 146137), (101, 146146), (103, 146218), (104, 146320), (105, 146365), (106, 146395), (108, 146458), (111, 146473), (125, 146632), (132, 146656), (134, 146713), (139, 146800), (148, 146908), (164, 147079), (166, 147091), (170, 147142), (176, 147199), (192, 147346), (202, 147469), (204, 147496), (205, 147499), (206, 147502), (207, 147505), (214, 147562), (217, 147610), (227, 147670), (230, 147679), (241, 147790),

Gene: Ghost\_253 Start: 145438, Stop: 148461, Start Num: 10

Candidate Starts for Ghost\_253:

(2, 145156), (Start: 10 @145438 has 182 MA's), (Start: 17 @145504 has 1 MA's), (19, 145546), (21, 145570), (23, 145588), (28, 145627), (36, 145699), (37, 145714), (40, 145771), (42, 145777), (43, 145804), (47, 145879), (49, 145891), (57, 145966), (58, 145969), (67, 146077), (75, 146188), (80, 146275), (82, 146305), (83, 146323), (86, 146347), (88, 146362), (97, 146653), (98, 146713), (100, 146761), (101, 146770), (103, 146842), (104, 146944), (105, 146989), (106, 147019), (108, 147082), (111, 147097), (125, 147256), (132, 147280), (134, 147337), (139, 147424), (148, 147532), (164, 147703), (166, 147715), (170, 147766), (176, 147823), (192, 147970), (202, 148093), (204, 148120), (205, 148123), (206, 148126), (207, 148129), (214, 148186), (217, 148234), (227, 148294), (230, 148303), (241, 148414),

Gene: Gizmo\_259 Start: 148303, Stop: 150519, Start Num: 10

Candidate Starts for Gizmo\_259:

(2, 148021), (Start: 10 @148303 has 182 MA's), (Start: 17 @148369 has 1 MA's), (19, 148411), (21, 148435), (23, 148453), (28, 148492), (36, 148564), (37, 148579), (40, 148636), (42, 148642), (43, 148669), (47, 148744), (49, 148756), (57, 148831), (58, 148834), (67, 148942), (72, 149026), (75, 149053), (80, 149140), (125, 149314), (132, 149338), (134, 149395), (139, 149482), (148, 149590),

(152, 149650), (164, 149761), (166, 149773), (168, 149782), (170, 149824), (176, 149881), (189, 150013), (192, 150028), (202, 150151), (204, 150178), (205, 150181), (206, 150184), (207, 150187), (214, 150244), (217, 150292), (227, 150352), (230, 150361), (241, 150472),

Gene: GlutenPhree\_254 Start: 144825, Stop: 147848, Start Num: 10

Candidate Starts for GlutenPhree\_254:

(2, 144543), (Start: 10 @144825 has 182 MA's), (Start: 17 @144891 has 1 MA's), (19, 144933), (21, 144957), (23, 144975), (28, 145014), (36, 145086), (37, 145101), (40, 145158), (42, 145164), (43, 145191), (47, 145266), (49, 145278), (57, 145353), (58, 145356), (67, 145464), (75, 145575), (80, 145662), (82, 145692), (83, 145710), (86, 145734), (88, 145749), (97, 146040), (98, 146100), (100, 146148), (101, 146157), (103, 146229), (104, 146331), (105, 146376), (106, 146406), (108, 146469), (111, 146484), (125, 146643), (132, 146667), (134, 146724), (139, 146811), (148, 146919), (164, 147090), (166, 147102), (170, 147153), (176, 147210), (192, 147357), (202, 147480), (204, 147507), (205, 147510), (206, 147513), (207, 147516), (214, 147573), (217, 147621), (227, 147681), (230, 147690), (241, 147801),

Gene: Grasshills\_260 Start: 147424, Stop: 149640, Start Num: 10

Candidate Starts for Grasshills\_260:

(2, 147142), (Start: 10 @147424 has 182 MA's), (Start: 17 @147490 has 1 MA's), (19, 147532), (21, 147556), (23, 147574), (28, 147613), (36, 147685), (37, 147700), (40, 147757), (42, 147763), (43, 147790), (47, 147865), (49, 147877), (57, 147952), (58, 147955), (67, 148063), (72, 148147), (75, 148174), (80, 148261), (125, 148435), (132, 148459), (134, 148516), (139, 148603), (148, 148711), (152, 148771), (164, 148882), (166, 148894), (168, 148903), (170, 148945), (176, 149002), (190, 149140), (192, 149149), (202, 149272), (204, 149299), (205, 149302), (206, 149305), (207, 149308), (214, 149365), (217, 149413), (227, 149473), (230, 149482), (241, 149593),

Gene: Greely\_254 Start: 148790, Stop: 151084, Start Num: 10

Candidate Starts for Greely\_254:

(Start: 10 @148790 has 182 MA's), (Start: 17 @148862 has 1 MA's), (20, 148925), (24, 148952), (35, 149051), (36, 149057), (38, 149081), (42, 149135), (47, 149237), (49, 149249), (50, 149258), (57, 149324), (60, 149357), (65, 149420), (68, 149441), (77, 149552), (78, 149585), (115, 149702), (116, 149708), (118, 149768), (122, 149780), (123, 149789), (128, 149828), (134, 149894), (137, 149939), (139, 149981), (141, 149990), (146, 150074), (148, 150086), (151, 150119), (154, 150212), (158, 150269), (159, 150281), (161, 150305), (163, 150320), (168, 150350), (170, 150392), (172, 150398), (181, 150512), (193, 150632), (204, 150734), (205, 150737), (206, 150740), (209, 150749), (219, 150857), (222, 150872), (229, 150908), (233, 150965), (237, 150989), (239, 151004),

Gene: Grungle\_235 Start: 142703, Stop: 145726, Start Num: 10

Candidate Starts for Grungle\_235:

(2, 142421), (Start: 10 @142703 has 182 MA's), (Start: 17 @142769 has 1 MA's), (19, 142811), (21, 142835), (23, 142853), (28, 142892), (36, 142964), (37, 142979), (40, 143036), (42, 143042), (43, 143069), (47, 143144), (49, 143156), (57, 143231), (58, 143234), (67, 143342), (72, 143426), (75, 143453), (80, 143540), (82, 143570), (83, 143588), (86, 143612), (88, 143627), (97, 143918), (98, 143978), (100, 144026), (101, 144035), (102, 144059), (104, 144209), (105, 144254), (106, 144284), (108, 144347), (111, 144362), (125, 144521), (132, 144545), (134, 144602), (139, 144689), (148, 144797), (152, 144857), (164, 144968), (166, 144980), (168, 144989), (170, 145031), (176, 145088), (189, 145220), (192, 145235), (202, 145358), (204, 145385), (205, 145388), (206, 145391), (207, 145394), (214, 145451), (217, 145499), (227, 145559), (230, 145568), (241, 145679),

Gene: Guwapp\_249 Start: 144272, Stop: 146488, Start Num: 10

Candidate Starts for Guwapp\_249:

(2, 143990), (Start: 10 @144272 has 182 MA's), (Start: 17 @144338 has 1 MA's), (19, 144380), (21, 144404), (23, 144422), (28, 144461), (36, 144533), (37, 144548), (40, 144605), (42, 144611), (43,

144638), (47, 144713), (49, 144725), (57, 144800), (58, 144803), (67, 144911), (72, 144995), (75, 145022), (80, 145109), (125, 145283), (132, 145307), (134, 145364), (139, 145451), (148, 145559), (152, 145619), (164, 145730), (166, 145742), (168, 145751), (170, 145793), (176, 145850), (189, 145982), (192, 145997), (202, 146120), (204, 146147), (205, 146150), (206, 146153), (207, 146156), (214, 146213), (217, 146261), (227, 146321), (230, 146330), (241, 146441),

Gene: Halldule\_245 Start: 143885, Stop: 146908, Start Num: 10

Candidate Starts for Halldule\_245:

(2, 143603), (Start: 10 @143885 has 182 MA's), (Start: 17 @143951 has 1 MA's), (19, 143993), (21, 144017), (23, 144035), (28, 144074), (36, 144146), (37, 144161), (40, 144218), (42, 144224), (43, 144251), (47, 144326), (49, 144338), (57, 144413), (58, 144416), (67, 144524), (72, 144608), (75, 144635), (80, 144722), (82, 144752), (83, 144770), (86, 144794), (88, 144809), (97, 145100), (98, 145160), (100, 145208), (101, 145217), (102, 145241), (104, 145391), (105, 145436), (106, 145466), (108, 145529), (111, 145544), (125, 145703), (132, 145727), (134, 145784), (139, 145871), (148, 145979), (152, 146039), (164, 146150), (166, 146162), (168, 146171), (170, 146213), (176, 146270), (189, 146402), (192, 146417), (202, 146540), (204, 146567), (205, 146570), (206, 146573), (207, 146576), (214, 146633), (217, 146681), (227, 146741), (230, 146750), (241, 146861),

Gene: HyRo\_238 Start: 144789, Stop: 147005, Start Num: 10

Candidate Starts for HyRo\_238:

(Start: 10 @144789 has 182 MA's), (Start: 17 @144855 has 1 MA's), (19, 144897), (21, 144921), (23, 144939), (28, 144978), (36, 145050), (37, 145065), (40, 145122), (42, 145128), (43, 145155), (47, 145230), (49, 145242), (57, 145317), (58, 145320), (67, 145428), (72, 145512), (75, 145539), (80, 145626), (125, 145800), (132, 145824), (134, 145881), (139, 145968), (148, 146076), (152, 146136), (164, 146247), (166, 146259), (170, 146310), (176, 146367), (192, 146514), (202, 146637), (204, 146664), (205, 146667), (206, 146670), (207, 146673), (214, 146730), (217, 146778), (227, 146838), (230, 146847), (241, 146958),

Gene: I3\_263 Start: 146580, Stop: 148796, Start Num: 10

Candidate Starts for I3\_263:

(2, 146298), (Start: 10 @146580 has 182 MA's), (Start: 17 @146646 has 1 MA's), (19, 146688), (21, 146712), (23, 146730), (28, 146769), (36, 146841), (37, 146856), (40, 146913), (42, 146919), (43, 146946), (47, 147021), (49, 147033), (57, 147108), (58, 147111), (67, 147219), (72, 147303), (75, 147330), (80, 147417), (125, 147591), (132, 147615), (134, 147672), (139, 147759), (148, 147867), (152, 147927), (164, 148038), (166, 148050), (168, 148059), (170, 148101), (176, 148158), (190, 148296), (192, 148305), (202, 148428), (204, 148455), (205, 148458), (206, 148461), (207, 148464), (214, 148521), (217, 148569), (227, 148629), (230, 148638), (241, 148749),

Gene: IkeLoa\_247 Start: 145170, Stop: 148193, Start Num: 10

Candidate Starts for IkeLoa\_247:

(2, 144888), (Start: 10 @145170 has 182 MA's), (Start: 17 @145236 has 1 MA's), (19, 145278), (21, 145302), (23, 145320), (28, 145359), (36, 145431), (37, 145446), (40, 145503), (42, 145509), (43, 145536), (47, 145611), (49, 145623), (57, 145698), (58, 145701), (67, 145809), (72, 145893), (75, 145920), (80, 146007), (82, 146037), (83, 146055), (86, 146079), (88, 146094), (97, 146385), (98, 146445), (100, 146493), (101, 146502), (102, 146526), (104, 146676), (105, 146721), (106, 146751), (108, 146814), (111, 146829), (125, 146988), (132, 147012), (134, 147069), (139, 147156), (148, 147264), (152, 147324), (164, 147435), (166, 147447), (168, 147456), (170, 147498), (176, 147555), (189, 147687), (192, 147702), (202, 147825), (204, 147852), (205, 147855), (206, 147858), (207, 147861), (214, 147918), (217, 147966), (227, 148026), (230, 148035), (241, 148146),

Gene: InigoMontoya\_257 Start: 145488, Stop: 148511, Start Num: 10

Candidate Starts for InigoMontoya\_257:

(2, 145206), (Start: 10 @145488 has 182 MA's), (Start: 17 @145554 has 1 MA's), (19, 145596), (21, 145620), (23, 145638), (28, 145677), (36, 145749), (37, 145764), (40, 145821), (42, 145827), (43, 145854), (47, 145929), (49, 145941), (57, 146016), (58, 146019), (67, 146127), (75, 146238), (80, 146325), (82, 146355), (83, 146373), (86, 146397), (88, 146412), (97, 146703), (98, 146763), (100, 146811), (101, 146820), (103, 146892), (104, 146994), (105, 147039), (106, 147069), (108, 147132), (111, 147147), (125, 147306), (132, 147330), (134, 147387), (139, 147474), (148, 147582), (164, 147753), (166, 147765), (170, 147816), (176, 147873), (192, 148020), (202, 148143), (204, 148170), (205, 148173), (206, 148176), (207, 148179), (214, 148236), (217, 148284), (227, 148344), (230, 148353), (241, 148464),

Gene: InterFolia\_255 Start: 146234, Stop: 149257, Start Num: 10

Candidate Starts for InterFolia\_255:

(2, 145952), (Start: 10 @146234 has 182 MA's), (Start: 17 @146300 has 1 MA's), (19, 146342), (21, 146366), (23, 146384), (28, 146423), (36, 146495), (37, 146510), (40, 146567), (42, 146573), (43, 146600), (47, 146675), (49, 146687), (57, 146762), (58, 146765), (67, 146873), (72, 146957), (75, 146984), (80, 147071), (82, 147101), (83, 147119), (86, 147143), (88, 147158), (97, 147449), (98, 147509), (100, 147557), (101, 147566), (102, 147590), (104, 147740), (105, 147785), (106, 147815), (108, 147878), (111, 147893), (125, 148052), (132, 148076), (134, 148133), (139, 148220), (148, 148328), (152, 148388), (164, 148499), (166, 148511), (168, 148520), (170, 148562), (176, 148619), (189, 148751), (192, 148766), (202, 148889), (204, 148916), (205, 148919), (206, 148922), (207, 148925), (214, 148982), (217, 149030), (227, 149090), (230, 149099), (241, 149210),

Gene: Iota\_250 Start: 145200, Stop: 148223, Start Num: 10

Candidate Starts for Iota\_250:

(2, 144918), (Start: 10 @145200 has 182 MA's), (Start: 17 @145266 has 1 MA's), (19, 145308), (21, 145332), (23, 145350), (28, 145389), (36, 145461), (37, 145476), (40, 145533), (42, 145539), (43, 145566), (47, 145641), (49, 145653), (57, 145728), (58, 145731), (67, 145839), (72, 145923), (75, 145950), (80, 146037), (82, 146067), (83, 146085), (86, 146109), (88, 146124), (97, 146415), (98, 146475), (100, 146523), (101, 146532), (102, 146556), (104, 146706), (105, 146751), (106, 146781), (108, 146844), (111, 146859), (125, 147018), (132, 147042), (134, 147099), (139, 147186), (148, 147294), (152, 147354), (164, 147465), (166, 147477), (168, 147486), (170, 147528), (176, 147585), (189, 147717), (192, 147732), (202, 147855), (204, 147882), (205, 147885), (206, 147888), (207, 147891), (214, 147948), (217, 147996), (227, 148056), (230, 148065), (241, 148176),

Gene: Issimir\_247 Start: 145575, Stop: 148598, Start Num: 10

Candidate Starts for Issimir\_247:

(2, 145293), (Start: 10 @145575 has 182 MA's), (Start: 17 @145641 has 1 MA's), (19, 145683), (21, 145707), (23, 145725), (28, 145764), (36, 145836), (37, 145851), (40, 145908), (42, 145914), (43, 145941), (47, 146016), (49, 146028), (57, 146103), (58, 146106), (67, 146214), (72, 146298), (75, 146325), (80, 146412), (82, 146442), (83, 146460), (86, 146484), (88, 146499), (97, 146790), (98, 146850), (100, 146898), (101, 146907), (102, 146931), (104, 147081), (105, 147126), (106, 147156), (108, 147219), (111, 147234), (125, 147393), (132, 147417), (134, 147474), (139, 147561), (148, 147669), (152, 147729), (164, 147840), (166, 147852), (168, 147861), (170, 147903), (176, 147960), (189, 148092), (192, 148107), (202, 148230), (204, 148257), (205, 148260), (206, 148263), (207, 148266), (214, 148323), (217, 148371), (227, 148431), (230, 148440), (241, 148551),

Gene: Izajani\_249 Start: 146020, Stop: 149043, Start Num: 10

Candidate Starts for Izajani\_249:

(2, 145738), (Start: 10 @146020 has 182 MA's), (Start: 17 @146086 has 1 MA's), (19, 146128), (21, 146152), (23, 146170), (28, 146209), (36, 146281), (37, 146296), (40, 146353), (42, 146359), (43, 146386), (47, 146461), (49, 146473), (57, 146548), (58, 146551), (67, 146659), (72, 146743), (75, 146770), (80, 146857), (82, 146887), (83, 146905), (86, 146929), (88, 146944), (97, 147235), (98, 147295), (100, 147343), (101, 147352), (102, 147376), (104, 147526), (105, 147571), (106, 147601),

(108, 147664), (111, 147679), (125, 147838), (132, 147862), (134, 147919), (139, 148006), (148, 148114), (152, 148174), (164, 148285), (166, 148297), (168, 148306), (170, 148348), (176, 148405), (189, 148537), (192, 148552), (202, 148675), (204, 148702), (205, 148705), (206, 148708), (207, 148711), (214, 148768), (217, 148816), (227, 148876), (230, 148885), (241, 148996),

Gene: JPickles\_251 Start: 144625, Stop: 147648, Start Num: 10

Candidate Starts for JPickles\_251:

(2, 144343), (Start: 10 @144625 has 182 MA's), (Start: 17 @144691 has 1 MA's), (19, 144733), (21, 144757), (23, 144775), (28, 144814), (36, 144886), (37, 144901), (40, 144958), (42, 144964), (43, 144991), (47, 145066), (49, 145078), (57, 145153), (58, 145156), (67, 145264), (72, 145348), (75, 145375), (80, 145462), (82, 145492), (83, 145510), (86, 145534), (88, 145549), (97, 145840), (98, 145900), (100, 145948), (101, 145957), (103, 146029), (104, 146131), (105, 146176), (106, 146206), (108, 146269), (111, 146284), (125, 146443), (132, 146467), (134, 146524), (139, 146611), (148, 146719), (152, 146779), (164, 146890), (166, 146902), (170, 146953), (176, 147010), (192, 147157), (202, 147280), (204, 147307), (205, 147310), (206, 147313), (207, 147316), (214, 147373), (217, 147421), (227, 147481), (230, 147490), (241, 147601),

Gene: Janiyra\_257 Start: 146162, Stop: 149185, Start Num: 10

Candidate Starts for Janiyra\_257:

(2, 145880), (Start: 10 @146162 has 182 MA's), (Start: 17 @146228 has 1 MA's), (19, 146270), (21, 146294), (23, 146312), (28, 146351), (36, 146423), (37, 146438), (40, 146495), (42, 146501), (43, 146528), (47, 146603), (49, 146615), (57, 146690), (58, 146693), (67, 146801), (75, 146912), (80, 146999), (82, 147029), (83, 147047), (86, 147071), (88, 147086), (97, 147377), (98, 147437), (100, 147485), (101, 147494), (103, 147566), (104, 147668), (105, 147713), (106, 147743), (108, 147806), (111, 147821), (125, 147980), (132, 148004), (134, 148061), (139, 148148), (148, 148256), (152, 148316), (164, 148427), (166, 148439), (170, 148490), (176, 148547), (192, 148694), (202, 148817), (204, 148844), (205, 148847), (206, 148850), (207, 148853), (214, 148910), (217, 148958), (227, 149018), (230, 149027), (241, 149138),

Gene: JayJay\_253 Start: 144961, Stop: 147177, Start Num: 10

Candidate Starts for JayJay\_253:

(Start: 10 @144961 has 182 MA's), (Start: 17 @145027 has 1 MA's), (19, 145069), (21, 145093), (23, 145111), (28, 145150), (36, 145222), (37, 145237), (40, 145294), (42, 145300), (43, 145327), (47, 145402), (49, 145414), (57, 145489), (58, 145492), (67, 145600), (72, 145684), (75, 145711), (80, 145798), (125, 145972), (132, 145996), (134, 146053), (139, 146140), (148, 146248), (152, 146308), (164, 146419), (166, 146431), (170, 146482), (176, 146539), (192, 146686), (202, 146809), (204, 146836), (205, 146839), (206, 146842), (207, 146845), (214, 146902), (217, 146950), (227, 147010), (230, 147019), (241, 147130),

Gene: Jaygup\_250 Start: 145347, Stop: 148370, Start Num: 10

Candidate Starts for Jaygup\_250:

(2, 145065), (Start: 10 @145347 has 182 MA's), (Start: 17 @145413 has 1 MA's), (19, 145455), (21, 145479), (23, 145497), (28, 145536), (36, 145608), (37, 145623), (40, 145680), (42, 145686), (43, 145713), (47, 145788), (49, 145800), (57, 145875), (58, 145878), (67, 145986), (72, 146070), (75, 146097), (80, 146184), (82, 146214), (83, 146232), (86, 146256), (88, 146271), (97, 146562), (98, 146622), (100, 146670), (101, 146679), (103, 146751), (104, 146853), (105, 146898), (106, 146928), (108, 146991), (111, 147006), (125, 147165), (132, 147189), (134, 147246), (139, 147333), (148, 147441), (152, 147501), (164, 147612), (166, 147624), (168, 147633), (170, 147675), (176, 147732), (189, 147864), (192, 147879), (202, 148002), (204, 148029), (205, 148032), (206, 148035), (207, 148038), (214, 148095), (217, 148143), (227, 148203), (230, 148212), (241, 148323),

Gene: JeanGrey\_1 Start: 1, Stop: 2082, Start Num: 10

Candidate Starts for JeanGrey\_1:

(Start: 10 @1 has 182 MA's), (26, 172), (28, 193), (35, 259), (40, 337), (42, 343), (50, 466), (51, 469), (53, 475), (54, 487), (62, 586), (65, 628), (67, 643), (70, 679), (71, 685), (73, 733), (75, 754), (128, 1024), (139, 1153), (148, 1258), (167, 1447), (179, 1591), (180, 1594), (190, 1693), (197, 1771), (205, 1846), (224, 2008),

Gene: Jedediah\_255 Start: 146400, Stop: 149423, Start Num: 10

Candidate Starts for Jedediah\_255:

(2, 146118), (Start: 10 @146400 has 182 MA's), (Start: 17 @146466 has 1 MA's), (19, 146508), (21, 146532), (23, 146550), (28, 146589), (36, 146661), (37, 146676), (40, 146733), (42, 146739), (43, 146766), (47, 146841), (49, 146853), (57, 146928), (58, 146931), (67, 147039), (75, 147150), (80, 147237), (82, 147267), (83, 147285), (86, 147309), (88, 147324), (97, 147615), (98, 147675), (100, 147723), (101, 147732), (103, 147804), (104, 147906), (105, 147951), (106, 147981), (108, 148044), (111, 148059), (125, 148218), (132, 148242), (134, 148299), (139, 148386), (148, 148494), (164, 148665), (166, 148677), (170, 148728), (176, 148785), (192, 148932), (202, 149055), (204, 149082), (205, 149085), (206, 149088), (207, 149091), (214, 149148), (217, 149196), (227, 149256), (230, 149265), (241, 149376),

Gene: Jemmno\_253 Start: 145119, Stop: 148142, Start Num: 10

Candidate Starts for Jemmno\_253:

(2, 144837), (Start: 10 @145119 has 182 MA's), (Start: 17 @145185 has 1 MA's), (19, 145227), (21, 145251), (23, 145269), (28, 145308), (36, 145380), (37, 145395), (40, 145452), (42, 145458), (43, 145485), (47, 145560), (49, 145572), (57, 145647), (58, 145650), (67, 145758), (75, 145869), (80, 145956), (82, 145986), (83, 146004), (86, 146028), (88, 146043), (97, 146334), (98, 146394), (100, 146442), (101, 146451), (103, 146523), (104, 146625), (105, 146670), (106, 146700), (108, 146763), (111, 146778), (125, 146937), (132, 146961), (134, 147018), (139, 147105), (148, 147213), (164, 147384), (166, 147396), (170, 147447), (176, 147504), (192, 147651), (202, 147774), (204, 147801), (205, 147804), (206, 147807), (207, 147810), (214, 147867), (217, 147915), (227, 147975), (230, 147984), (241, 148095),

Gene: Jessibeth14\_253 Start: 146595, Stop: 148811, Start Num: 10

Candidate Starts for Jessibeth14\_253:

(2, 146313), (Start: 10 @146595 has 182 MA's), (Start: 17 @146661 has 1 MA's), (19, 146703), (21, 146727), (23, 146745), (28, 146784), (36, 146856), (37, 146871), (40, 146928), (42, 146934), (43, 146961), (47, 147036), (49, 147048), (57, 147123), (58, 147126), (67, 147234), (72, 147318), (75, 147345), (80, 147432), (125, 147606), (132, 147630), (134, 147687), (139, 147774), (148, 147882), (152, 147942), (164, 148053), (166, 148065), (168, 148074), (170, 148116), (176, 148173), (192, 148320), (202, 148443), (204, 148470), (205, 148473), (206, 148476), (207, 148479), (214, 148536), (217, 148584), (227, 148644), (230, 148653), (241, 148764),

Gene: Jezreel\_250 Start: 145658, Stop: 148687, Start Num: 9

Candidate Starts for Jezreel\_250:

(Start: 9 @145658 has 2 MA's), (Start: 10 @145664 has 182 MA's), (Start: 17 @145730 has 1 MA's), (19, 145772), (21, 145796), (23, 145814), (28, 145853), (36, 145925), (37, 145940), (40, 145997), (42, 146003), (43, 146030), (47, 146105), (49, 146117), (57, 146192), (58, 146195), (67, 146303), (72, 146387), (75, 146414), (80, 146501), (82, 146531), (83, 146549), (86, 146573), (88, 146588), (97, 146879), (98, 146939), (100, 146987), (101, 146996), (102, 147020), (104, 147170), (105, 147215), (106, 147245), (108, 147308), (111, 147323), (125, 147482), (132, 147506), (134, 147563), (139, 147650), (148, 147758), (152, 147818), (164, 147929), (166, 147941), (168, 147950), (170, 147992), (176, 148049), (189, 148181), (192, 148196), (202, 148319), (204, 148346), (205, 148349), (206, 148352), (207, 148355), (214, 148412), (217, 148460), (227, 148520), (230, 148529), (241, 148640),

Gene: JigglyPuff\_259 Start: 147090, Stop: 149306, Start Num: 10

Candidate Starts for JigglyPuff\_259:

(2, 146808), (Start: 10 @147090 has 182 MA's), (Start: 17 @147156 has 1 MA's), (19, 147198), (21, 147222), (23, 147240), (28, 147279), (36, 147351), (37, 147366), (40, 147423), (42, 147429), (43, 147456), (47, 147531), (49, 147543), (57, 147618), (58, 147621), (67, 147729), (72, 147813), (75, 147840), (80, 147927), (125, 148101), (132, 148125), (134, 148182), (139, 148269), (148, 148377), (152, 148437), (164, 148548), (166, 148560), (168, 148569), (170, 148611), (176, 148668), (189, 148800), (192, 148815), (202, 148938), (204, 148965), (205, 148968), (206, 148971), (207, 148974), (214, 149031), (217, 149079), (227, 149139), (230, 149148), (241, 149259),

Gene: JulietS\_242 Start: 142699, Stop: 145722, Start Num: 10

Candidate Starts for JulietS\_242:

(Start: 10 @142699 has 182 MA's), (Start: 17 @142765 has 1 MA's), (19, 142807), (21, 142831), (23, 142849), (28, 142888), (36, 142960), (37, 142975), (40, 143032), (42, 143038), (43, 143065), (47, 143140), (49, 143152), (57, 143227), (58, 143230), (67, 143338), (72, 143422), (75, 143449), (80, 143536), (82, 143566), (83, 143584), (86, 143608), (88, 143623), (97, 143914), (98, 143974), (100, 144022), (101, 144031), (102, 144055), (104, 144205), (105, 144250), (106, 144280), (108, 144343), (111, 144358), (125, 144517), (132, 144541), (134, 144598), (139, 144685), (148, 144793), (152, 144853), (164, 144964), (166, 144976), (168, 144985), (170, 145027), (176, 145084), (189, 145216), (192, 145231), (202, 145354), (204, 145381), (205, 145384), (206, 145387), (207, 145390), (214, 145447), (217, 145495), (227, 145555), (230, 145564), (241, 145675),

Gene: JustHall\_247 Start: 144649, Stop: 147672, Start Num: 10

Candidate Starts for JustHall\_247:

(2, 144367), (Start: 10 @144649 has 182 MA's), (Start: 17 @144715 has 1 MA's), (19, 144757), (21, 144781), (23, 144799), (28, 144838), (36, 144910), (37, 144925), (40, 144982), (42, 144988), (43, 145015), (47, 145090), (49, 145102), (57, 145177), (58, 145180), (67, 145288), (72, 145372), (75, 145399), (80, 145486), (82, 145516), (83, 145534), (86, 145558), (88, 145573), (97, 145864), (98, 145924), (100, 145972), (101, 145981), (103, 146053), (104, 146155), (105, 146200), (106, 146230), (108, 146293), (111, 146308), (125, 146467), (132, 146491), (134, 146548), (139, 146635), (148, 146743), (152, 146803), (164, 146914), (166, 146926), (170, 146977), (176, 147034), (192, 147181), (202, 147304), (204, 147331), (205, 147334), (206, 147337), (207, 147340), (214, 147397), (217, 147445), (227, 147505), (230, 147514), (241, 147625),

Gene: Kamryn\_252 Start: 146239, Stop: 149262, Start Num: 10

Candidate Starts for Kamryn\_252:

(2, 145957), (Start: 10 @146239 has 182 MA's), (Start: 17 @146305 has 1 MA's), (19, 146347), (21, 146371), (23, 146389), (28, 146428), (36, 146500), (37, 146515), (40, 146572), (42, 146578), (43, 146605), (47, 146680), (49, 146692), (57, 146767), (58, 146770), (67, 146878), (72, 146962), (75, 146989), (80, 147076), (82, 147106), (83, 147124), (86, 147148), (88, 147163), (97, 147454), (98, 147514), (100, 147562), (101, 147571), (102, 147595), (104, 147745), (105, 147790), (106, 147820), (108, 147883), (111, 147898), (125, 148057), (132, 148081), (134, 148138), (139, 148225), (148, 148333), (152, 148393), (164, 148504), (166, 148516), (168, 148525), (170, 148567), (176, 148624), (189, 148756), (192, 148771), (202, 148894), (204, 148921), (205, 148924), (206, 148927), (207, 148930), (214, 148987), (217, 149035), (227, 149095), (230, 149104), (241, 149215),

Gene: Kboogie\_257 Start: 145278, Stop: 148301, Start Num: 10

Candidate Starts for Kboogie\_257:

(2, 144996), (Start: 10 @145278 has 182 MA's), (Start: 17 @145344 has 1 MA's), (19, 145386), (21, 145410), (23, 145428), (28, 145467), (36, 145539), (37, 145554), (40, 145611), (42, 145617), (43, 145644), (47, 145719), (49, 145731), (57, 145806), (58, 145809), (67, 145917), (75, 146028), (80, 146115), (82, 146145), (83, 146163), (86, 146187), (88, 146202), (97, 146493), (98, 146553), (100, 146601), (101, 146610), (103, 146682), (104, 146784), (105, 146829), (106, 146859), (108, 146922), (111, 146937), (125, 147096), (132, 147120), (134, 147177), (139, 147264), (148, 147372), (152, 147432), (164, 147543), (166, 147555), (170, 147606), (176, 147663), (192, 147810), (202, 147933),

(204, 147960), (205, 147963), (206, 147966), (207, 147969), (214, 148026), (217, 148074), (227, 148134), (230, 148143), (241, 148254),

Gene: Khaleesi\_252 Start: 146062, Stop: 148278, Start Num: 10

Candidate Starts for Khaleesi\_252:

(2, 145780), (Start: 10 @146062 has 182 MA's), (Start: 17 @146128 has 1 MA's), (19, 146170), (21, 146194), (23, 146212), (28, 146251), (36, 146323), (37, 146338), (40, 146395), (42, 146401), (43, 146428), (47, 146503), (49, 146515), (57, 146590), (58, 146593), (67, 146701), (72, 146785), (75, 146812), (80, 146899), (125, 147073), (132, 147097), (134, 147154), (139, 147241), (148, 147349), (152, 147409), (164, 147520), (166, 147532), (168, 147541), (170, 147583), (176, 147640), (192, 147787), (202, 147910), (204, 147937), (205, 147940), (206, 147943), (207, 147946), (214, 148003), (217, 148051), (227, 148111), (230, 148120), (241, 148231),

Gene: Koguma\_252 Start: 144861, Stop: 147884, Start Num: 10

Candidate Starts for Koguma\_252:

(2, 144579), (Start: 10 @144861 has 182 MA's), (Start: 17 @144927 has 1 MA's), (19, 144969), (21, 144993), (23, 145011), (28, 145050), (36, 145122), (37, 145137), (40, 145194), (42, 145200), (43, 145227), (47, 145302), (49, 145314), (57, 145389), (58, 145392), (67, 145500), (72, 145584), (75, 145611), (80, 145698), (82, 145728), (83, 145746), (86, 145770), (88, 145785), (97, 146076), (98, 146136), (100, 146184), (101, 146193), (102, 146217), (104, 146367), (105, 146412), (106, 146442), (108, 146505), (111, 146520), (125, 146679), (132, 146703), (134, 146760), (139, 146847), (148, 146955), (152, 147015), (164, 147126), (166, 147138), (168, 147147), (170, 147189), (176, 147246), (189, 147378), (192, 147393), (202, 147516), (204, 147543), (205, 147546), (206, 147549), (207, 147552), (214, 147609), (217, 147657), (227, 147717), (230, 147726), (241, 147837),

Gene: LRRHood\_245 Start: 144271, Stop: 147294, Start Num: 10

Candidate Starts for LRRHood\_245:

(2, 143989), (Start: 10 @144271 has 182 MA's), (Start: 17 @144337 has 1 MA's), (19, 144379), (21, 144403), (23, 144421), (28, 144460), (36, 144532), (37, 144547), (40, 144604), (42, 144610), (43, 144637), (47, 144712), (49, 144724), (57, 144799), (58, 144802), (67, 144910), (72, 144994), (75, 145021), (80, 145108), (82, 145138), (83, 145156), (86, 145180), (88, 145195), (97, 145486), (98, 145546), (100, 145594), (101, 145603), (103, 145675), (104, 145777), (105, 145822), (106, 145852), (108, 145915), (111, 145930), (125, 146089), (132, 146113), (134, 146170), (139, 146257), (148, 146365), (152, 146425), (164, 146536), (166, 146548), (168, 146557), (170, 146599), (176, 146656), (189, 146788), (192, 146803), (202, 146926), (204, 146953), (205, 146956), (206, 146959), (207, 146962), (214, 147019), (217, 147067), (227, 147127), (230, 147136), (241, 147247),

Gene: Labradorite\_250 Start: 144838, Stop: 147861, Start Num: 10

Candidate Starts for Labradorite\_250:

(2, 144556), (Start: 10 @144838 has 182 MA's), (Start: 17 @144904 has 1 MA's), (19, 144946), (21, 144970), (23, 144988), (28, 145027), (36, 145099), (37, 145114), (40, 145171), (42, 145177), (43, 145204), (47, 145279), (49, 145291), (57, 145366), (58, 145369), (67, 145477), (72, 145561), (75, 145588), (80, 145675), (82, 145705), (83, 145723), (86, 145747), (88, 145762), (97, 146053), (98, 146113), (100, 146161), (101, 146170), (102, 146194), (104, 146344), (105, 146389), (106, 146419), (108, 146482), (111, 146497), (125, 146656), (132, 146680), (134, 146737), (139, 146824), (148, 146932), (152, 146992), (164, 147103), (166, 147115), (168, 147124), (170, 147166), (176, 147223), (189, 147355), (192, 147370), (202, 147493), (204, 147520), (205, 147523), (206, 147526), (207, 147529), (214, 147586), (217, 147634), (227, 147694), (230, 147703), (241, 147814),

Gene: Latch\_253 Start: 144824, Stop: 147847, Start Num: 10

Candidate Starts for Latch\_253:

(2, 144542), (Start: 10 @144824 has 182 MA's), (Start: 17 @144890 has 1 MA's), (19, 144932), (21, 144956), (23, 144974), (28, 145013), (36, 145085), (37, 145100), (40, 145157), (42, 145163), (43,

145190), (47, 145265), (49, 145277), (57, 145352), (58, 145355), (67, 145463), (75, 145574), (80, 145661), (82, 145691), (83, 145709), (86, 145733), (88, 145748), (97, 146039), (98, 146099), (100, 146147), (101, 146156), (103, 146228), (104, 146330), (105, 146375), (106, 146405), (108, 146468), (111, 146483), (125, 146642), (132, 146666), (134, 146723), (139, 146810), (148, 146918), (164, 147089), (166, 147101), (170, 147152), (176, 147209), (192, 147356), (202, 147479), (204, 147506), (205, 147509), (206, 147512), (207, 147515), (214, 147572), (217, 147620), (227, 147680), (230, 147689), (241, 147800),

Gene: Lee7\_254 Start: 147925, Stop: 150948, Start Num: 10

Candidate Starts for Lee7\_254:

(2, 147643), (Start: 10 @147925 has 182 MA's), (Start: 17 @147991 has 1 MA's), (19, 148033), (21, 148057), (23, 148075), (28, 148114), (36, 148186), (37, 148201), (40, 148258), (42, 148264), (43, 148291), (47, 148366), (49, 148378), (57, 148453), (58, 148456), (67, 148564), (72, 148648), (75, 148675), (80, 148762), (82, 148792), (83, 148810), (86, 148834), (88, 148849), (97, 149140), (98, 149200), (100, 149248), (101, 149257), (102, 149281), (104, 149431), (105, 149476), (106, 149506), (108, 149569), (111, 149584), (125, 149743), (132, 149767), (134, 149824), (139, 149911), (148, 150019), (152, 150079), (164, 150190), (166, 150202), (168, 150211), (170, 150253), (176, 150310), (189, 150442), (192, 150457), (202, 150580), (204, 150607), (205, 150610), (206, 150613), (207, 150616), (214, 150673), (217, 150721), (227, 150781), (230, 150790), (241, 150901),

Gene: Lethe\_251 Start: 146646, Stop: 148862, Start Num: 10

Candidate Starts for Lethe\_251:

(2, 146364), (Start: 10 @146646 has 182 MA's), (Start: 17 @146712 has 1 MA's), (19, 146754), (21, 146778), (23, 146796), (28, 146835), (36, 146907), (37, 146922), (40, 146979), (42, 146985), (43, 147012), (47, 147087), (49, 147099), (57, 147174), (58, 147177), (67, 147285), (72, 147369), (75, 147396), (80, 147483), (125, 147657), (132, 147681), (134, 147738), (139, 147825), (148, 147933), (152, 147993), (164, 148104), (166, 148116), (168, 148125), (170, 148167), (176, 148224), (189, 148356), (192, 148371), (202, 148494), (204, 148521), (205, 148524), (206, 148527), (207, 148530), (214, 148587), (217, 148635), (227, 148695), (230, 148704), (241, 148815),

Gene: LifeSavor\_254 Start: 146052, Stop: 149075, Start Num: 10

Candidate Starts for LifeSavor\_254:

(2, 145770), (Start: 10 @146052 has 182 MA's), (Start: 17 @146118 has 1 MA's), (19, 146160), (21, 146184), (23, 146202), (28, 146241), (36, 146313), (37, 146328), (40, 146385), (42, 146391), (43, 146418), (47, 146493), (49, 146505), (57, 146580), (58, 146583), (67, 146691), (72, 146775), (75, 146802), (80, 146889), (82, 146919), (83, 146937), (86, 146961), (88, 146976), (97, 147267), (98, 147327), (100, 147375), (101, 147384), (103, 147456), (104, 147558), (105, 147603), (106, 147633), (108, 147696), (111, 147711), (125, 147870), (132, 147894), (134, 147951), (139, 148038), (148, 148146), (152, 148206), (164, 148317), (166, 148329), (168, 148338), (170, 148380), (176, 148437), (189, 148569), (192, 148584), (202, 148707), (204, 148734), (205, 148737), (206, 148740), (207, 148743), (214, 148800), (217, 148848), (227, 148908), (230, 148917), (241, 149028),

Gene: LinStu\_250 Start: 144153, Stop: 147176, Start Num: 10

Candidate Starts for LinStu\_250:

(Start: 10 @144153 has 182 MA's), (Start: 17 @144219 has 1 MA's), (19, 144261), (21, 144285), (23, 144303), (28, 144342), (36, 144414), (37, 144429), (40, 144486), (42, 144492), (43, 144519), (47, 144594), (49, 144606), (57, 144681), (58, 144684), (67, 144792), (75, 144903), (80, 144990), (82, 145020), (83, 145038), (86, 145062), (88, 145077), (97, 145368), (98, 145428), (100, 145476), (101, 145485), (103, 145557), (104, 145659), (105, 145704), (106, 145734), (108, 145797), (111, 145812), (125, 145971), (132, 145995), (134, 146052), (139, 146139), (148, 146247), (152, 146307), (164, 146418), (166, 146430), (170, 146481), (176, 146538), (192, 146685), (202, 146808), (204, 146835), (205, 146838), (206, 146841), (207, 146844), (214, 146901), (217, 146949), (227, 147009), (230, 147018), (241, 147129),

Gene: Littleton\_257 Start: 146061, Stop: 149084, Start Num: 10

Candidate Starts for Littleton\_257:

(2, 145779), (Start: 10 @146061 has 182 MA's), (Start: 17 @146127 has 1 MA's), (19, 146169), (21, 146193), (23, 146211), (28, 146250), (36, 146322), (37, 146337), (40, 146394), (42, 146400), (43, 146427), (47, 146502), (49, 146514), (57, 146589), (58, 146592), (67, 146700), (75, 146811), (80, 146898), (82, 146928), (83, 146946), (86, 146970), (88, 146985), (97, 147276), (98, 147336), (100, 147384), (101, 147393), (103, 147465), (104, 147567), (105, 147612), (106, 147642), (108, 147705), (111, 147720), (125, 147879), (132, 147903), (134, 147960), (139, 148047), (148, 148155), (152, 148215), (164, 148326), (166, 148338), (170, 148389), (176, 148446), (192, 148593), (202, 148716), (204, 148743), (205, 148746), (206, 148749), (207, 148752), (214, 148809), (217, 148857), (227, 148917), (230, 148926), (241, 149037),

Gene: Loanshark\_250 Start: 145411, Stop: 147627, Start Num: 10

Candidate Starts for Loanshark\_250:

(2, 145129), (Start: 10 @145411 has 182 MA's), (Start: 17 @145477 has 1 MA's), (19, 145519), (21, 145543), (23, 145561), (28, 145600), (36, 145672), (37, 145687), (40, 145744), (42, 145750), (43, 145777), (47, 145852), (49, 145864), (57, 145939), (58, 145942), (67, 146050), (72, 146134), (75, 146161), (80, 146248), (125, 146422), (132, 146446), (134, 146503), (139, 146590), (148, 146698), (152, 146758), (164, 146869), (166, 146881), (168, 146890), (170, 146932), (176, 146989), (189, 147121), (192, 147136), (202, 147259), (204, 147286), (205, 147289), (206, 147292), (207, 147295), (214, 147352), (217, 147400), (227, 147460), (230, 147469), (241, 147580),

Gene: LolaVinca\_249 Start: 145664, Stop: 148687, Start Num: 10

Candidate Starts for LolaVinca\_249:

(2, 145382), (Start: 10 @145664 has 182 MA's), (Start: 17 @145730 has 1 MA's), (19, 145772), (21, 145796), (23, 145814), (28, 145853), (36, 145925), (37, 145940), (40, 145997), (42, 146003), (43, 146030), (47, 146105), (49, 146117), (57, 146192), (58, 146195), (67, 146303), (72, 146387), (75, 146414), (80, 146501), (82, 146531), (83, 146549), (86, 146573), (88, 146588), (97, 146879), (98, 146939), (100, 146987), (101, 146996), (102, 147020), (104, 147170), (105, 147215), (106, 147245), (108, 147308), (111, 147323), (125, 147482), (132, 147506), (134, 147563), (139, 147650), (148, 147758), (152, 147818), (164, 147929), (166, 147941), (168, 147950), (170, 147992), (176, 148049), (189, 148181), (192, 148196), (202, 148319), (204, 148346), (205, 148349), (206, 148352), (207, 148355), (214, 148412), (217, 148460), (227, 148520), (230, 148529), (241, 148640),

Gene: LookingGlass\_251 Start: 145569, Stop: 148592, Start Num: 10

Candidate Starts for LookingGlass\_251:

(2, 145287), (Start: 10 @145569 has 182 MA's), (Start: 17 @145635 has 1 MA's), (19, 145677), (21, 145701), (23, 145719), (28, 145758), (36, 145830), (37, 145845), (40, 145902), (42, 145908), (43, 145935), (47, 146010), (49, 146022), (57, 146097), (58, 146100), (67, 146208), (72, 146292), (75, 146319), (80, 146406), (82, 146436), (83, 146454), (86, 146478), (88, 146493), (97, 146784), (98, 146844), (100, 146892), (101, 146901), (102, 146925), (104, 147075), (105, 147120), (106, 147150), (108, 147213), (111, 147228), (125, 147387), (132, 147411), (134, 147468), (139, 147555), (148, 147663), (152, 147723), (164, 147834), (166, 147846), (168, 147855), (170, 147897), (176, 147954), (189, 148086), (192, 148101), (202, 148224), (204, 148251), (205, 148254), (206, 148257), (207, 148260), (214, 148317), (217, 148365), (227, 148425), (230, 148434), (241, 148545),

Gene: LordLeafolot\_254 Start: 145277, Stop: 148300, Start Num: 10

Candidate Starts for LordLeafolot\_254:

(2, 144995), (Start: 10 @145277 has 182 MA's), (Start: 17 @145343 has 1 MA's), (19, 145385), (21, 145409), (23, 145427), (28, 145466), (36, 145538), (37, 145553), (40, 145610), (42, 145616), (43, 145643), (47, 145718), (49, 145730), (57, 145805), (58, 145808), (67, 145916), (72, 146000), (75, 146027), (80, 146114), (82, 146144), (83, 146162), (86, 146186), (88, 146201), (97, 146492), (98,

146552), (100, 146600), (101, 146609), (102, 146633), (104, 146783), (105, 146828), (106, 146858), (108, 146921), (111, 146936), (125, 147095), (132, 147119), (134, 147176), (139, 147263), (148, 147371), (152, 147431), (164, 147542), (166, 147554), (168, 147563), (170, 147605), (176, 147662), (189, 147794), (192, 147809), (202, 147932), (204, 147959), (205, 147962), (206, 147965), (207, 147968), (214, 148025), (217, 148073), (227, 148133), (230, 148142), (241, 148253),

Gene: Lukilu\_242 Start: 146280, Stop: 149303, Start Num: 10

Candidate Starts for Lukilu\_242:

(2, 145998), (Start: 10 @146280 has 182 MA's), (Start: 17 @146346 has 1 MA's), (19, 146388), (21, 146412), (23, 146430), (28, 146469), (36, 146541), (37, 146556), (40, 146613), (42, 146619), (43, 146646), (47, 146721), (49, 146733), (57, 146808), (58, 146811), (67, 146919), (72, 147003), (75, 147030), (80, 147117), (82, 147147), (83, 147165), (86, 147189), (88, 147204), (97, 147495), (98, 147555), (100, 147603), (101, 147612), (102, 147636), (104, 147786), (105, 147831), (106, 147861), (108, 147924), (111, 147939), (125, 148098), (132, 148122), (134, 148179), (139, 148266), (148, 148374), (152, 148434), (164, 148545), (166, 148557), (168, 148566), (170, 148608), (176, 148665), (189, 148797), (192, 148812), (202, 148935), (204, 148962), (205, 148965), (206, 148968), (207, 148971), (214, 149028), (217, 149076), (227, 149136), (230, 149145), (241, 149256),

Gene: Lunareta\_250 Start: 146512, Stop: 149535, Start Num: 10

Candidate Starts for Lunareta\_250:

(Start: 10 @146512 has 182 MA's), (Start: 17 @146578 has 1 MA's), (19, 146620), (21, 146644), (23, 146662), (28, 146701), (36, 146773), (37, 146788), (40, 146845), (42, 146851), (43, 146878), (47, 146953), (49, 146965), (57, 147040), (58, 147043), (67, 147151), (75, 147262), (80, 147349), (82, 147379), (83, 147397), (85, 147412), (86, 147421), (88, 147436), (97, 147727), (98, 147787), (100, 147835), (101, 147844), (103, 147916), (104, 148018), (105, 148063), (106, 148093), (108, 148156), (111, 148171), (125, 148330), (132, 148354), (134, 148411), (139, 148498), (148, 148606), (152, 148666), (164, 148777), (166, 148789), (170, 148840), (176, 148897), (192, 149044), (202, 149167), (204, 149194), (205, 149197), (206, 149200), (207, 149203), (214, 149260), (217, 149308), (227, 149368), (230, 149377), (241, 149488),

Gene: Maby2021\_254 Start: 146964, Stop: 149180, Start Num: 10

Candidate Starts for Maby2021\_254:

(2, 146682), (Start: 10 @146964 has 182 MA's), (Start: 17 @147030 has 1 MA's), (19, 147072), (21, 147096), (23, 147114), (28, 147153), (36, 147225), (37, 147240), (40, 147297), (42, 147303), (43, 147330), (47, 147405), (49, 147417), (57, 147492), (58, 147495), (67, 147603), (72, 147687), (75, 147714), (80, 147801), (125, 147975), (132, 147999), (134, 148056), (139, 148143), (148, 148251), (152, 148311), (164, 148422), (166, 148434), (168, 148443), (170, 148485), (176, 148542), (189, 148674), (192, 148689), (202, 148812), (204, 148839), (205, 148842), (206, 148845), (207, 148848), (214, 148905), (217, 148953), (227, 149013), (230, 149022), (241, 149133),

Gene: Mangeria\_253 Start: 146175, Stop: 149198, Start Num: 10

Candidate Starts for Mangeria\_253:

(2, 145893), (Start: 10 @146175 has 182 MA's), (Start: 17 @146241 has 1 MA's), (19, 146283), (21, 146307), (23, 146325), (28, 146364), (36, 146436), (37, 146451), (40, 146508), (42, 146514), (43, 146541), (47, 146616), (49, 146628), (57, 146703), (58, 146706), (67, 146814), (75, 146925), (80, 147012), (82, 147042), (83, 147060), (86, 147084), (88, 147099), (97, 147390), (98, 147450), (100, 147498), (101, 147507), (102, 147531), (104, 147681), (105, 147726), (106, 147756), (108, 147819), (111, 147834), (125, 147993), (132, 148017), (134, 148074), (139, 148161), (148, 148269), (152, 148329), (164, 148440), (166, 148452), (168, 148461), (170, 148503), (176, 148560), (189, 148692), (192, 148707), (202, 148830), (204, 148857), (205, 148860), (206, 148863), (207, 148866), (214, 148923), (217, 148971), (227, 149031), (230, 149040), (241, 149151),

Gene: Matsumoto\_251 Start: 145266, Stop: 148289, Start Num: 10

Candidate Starts for Matsumoto\_251:

(2, 144984), (Start: 10 @145266 has 182 MA's), (Start: 17 @145332 has 1 MA's), (19, 145374), (21, 145398), (23, 145416), (28, 145455), (36, 145527), (37, 145542), (40, 145599), (42, 145605), (43, 145632), (47, 145707), (49, 145719), (57, 145794), (58, 145797), (67, 145905), (72, 145989), (75, 146016), (80, 146103), (82, 146133), (83, 146151), (86, 146175), (88, 146190), (97, 146481), (98, 146541), (100, 146589), (101, 146598), (103, 146670), (104, 146772), (105, 146817), (106, 146847), (108, 146910), (111, 146925), (125, 147084), (132, 147108), (134, 147165), (139, 147252), (148, 147360), (152, 147420), (164, 147531), (166, 147543), (170, 147594), (176, 147651), (192, 147798), (202, 147921), (204, 147948), (205, 147951), (206, 147954), (207, 147957), (214, 148014), (217, 148062), (227, 148122), (230, 148131), (241, 148242),

Gene: Maturis\_247 Start: 145627, Stop: 148650, Start Num: 10

Candidate Starts for Maturis\_247:

(Start: 10 @145627 has 182 MA's), (Start: 17 @145693 has 1 MA's), (19, 145735), (21, 145759), (23, 145777), (28, 145816), (36, 145888), (37, 145903), (40, 145960), (42, 145966), (43, 145993), (47, 146068), (49, 146080), (57, 146155), (58, 146158), (67, 146266), (72, 146350), (75, 146377), (80, 146464), (82, 146494), (86, 146536), (88, 146551), (97, 146842), (98, 146902), (100, 146950), (101, 146959), (102, 146983), (104, 147133), (105, 147178), (106, 147208), (108, 147271), (111, 147286), (125, 147445), (132, 147469), (134, 147526), (139, 147613), (148, 147721), (152, 147781), (164, 147892), (166, 147904), (170, 147955), (176, 148012), (192, 148159), (202, 148282), (204, 148309), (205, 148312), (206, 148315), (207, 148318), (214, 148375), (217, 148423), (227, 148483), (230, 148492), (241, 148603),

Gene: McGee\_255 Start: 145612, Stop: 148635, Start Num: 10

Candidate Starts for McGee\_255:

(2, 145330), (Start: 10 @145612 has 182 MA's), (Start: 17 @145678 has 1 MA's), (19, 145720), (21, 145744), (23, 145762), (28, 145801), (36, 145873), (37, 145888), (40, 145945), (42, 145951), (43, 145978), (47, 146053), (49, 146065), (57, 146140), (58, 146143), (67, 146251), (75, 146362), (80, 146449), (82, 146479), (83, 146497), (86, 146521), (88, 146536), (97, 146827), (98, 146887), (100, 146935), (101, 146944), (103, 147016), (104, 147118), (105, 147163), (106, 147193), (108, 147256), (111, 147271), (125, 147430), (132, 147454), (134, 147511), (139, 147598), (148, 147706), (152, 147766), (164, 147877), (166, 147889), (170, 147940), (176, 147997), (192, 148144), (202, 148267), (204, 148294), (205, 148297), (206, 148300), (207, 148303), (214, 148360), (217, 148408), (227, 148468), (230, 148477), (241, 148588),

Gene: McWolfish\_250 Start: 145273, Stop: 147489, Start Num: 10

Candidate Starts for McWolfish\_250:

(2, 144991), (Start: 10 @145273 has 182 MA's), (Start: 17 @145339 has 1 MA's), (19, 145381), (21, 145405), (23, 145423), (28, 145462), (36, 145534), (37, 145549), (40, 145606), (42, 145612), (43, 145639), (47, 145714), (49, 145726), (57, 145801), (58, 145804), (67, 145912), (72, 145996), (75, 146023), (80, 146110), (125, 146284), (132, 146308), (134, 146365), (139, 146452), (148, 146560), (152, 146620), (164, 146731), (166, 146743), (168, 146752), (170, 146794), (176, 146851), (192, 146998), (202, 147121), (204, 147148), (205, 147151), (206, 147154), (207, 147157), (214, 147214), (217, 147262), (227, 147322), (230, 147331), (241, 147442),

Gene: Megamind\_250 Start: 145598, Stop: 147814, Start Num: 10

Candidate Starts for Megamind\_250:

(2, 145316), (Start: 10 @145598 has 182 MA's), (Start: 17 @145664 has 1 MA's), (19, 145706), (21, 145730), (23, 145748), (28, 145787), (36, 145859), (37, 145874), (40, 145931), (42, 145937), (43, 145964), (47, 146039), (49, 146051), (57, 146126), (58, 146129), (67, 146237), (72, 146321), (75, 146348), (80, 146435), (125, 146609), (132, 146633), (134, 146690), (139, 146777), (148, 146885), (152, 146945), (164, 147056), (166, 147068), (168, 147077), (170, 147119), (176, 147176), (189, 147308), (192, 147323), (202, 147446), (204, 147473), (205, 147476), (206, 147479), (207, 147482),

(214, 147539), (217, 147587), (227, 147647), (230, 147656), (241, 147767),

Gene: Melpomini\_248 Start: 144358, Stop: 147381, Start Num: 10

Candidate Starts for Melpomini\_248:

(2, 144076), (Start: 10 @144358 has 182 MA's), (Start: 17 @144424 has 1 MA's), (19, 144466), (21, 144490), (23, 144508), (28, 144547), (36, 144619), (37, 144634), (40, 144691), (42, 144697), (43, 144724), (47, 144799), (49, 144811), (57, 144886), (58, 144889), (67, 144997), (75, 145108), (80, 145195), (82, 145225), (83, 145243), (86, 145267), (88, 145282), (97, 145573), (98, 145633), (100, 145681), (101, 145690), (103, 145762), (104, 145864), (105, 145909), (106, 145939), (108, 146002), (111, 146017), (125, 146176), (132, 146200), (134, 146257), (139, 146344), (148, 146452), (152, 146512), (164, 146623), (166, 146635), (170, 146686), (176, 146743), (192, 146890), (202, 147013), (204, 147040), (205, 147043), (206, 147046), (207, 147049), (214, 147106), (217, 147154), (227, 147214), (230, 147223), (241, 147334),

Gene: MikeLiesIn\_254 Start: 146734, Stop: 148950, Start Num: 10

Candidate Starts for MikeLiesIn\_254:

(2, 146452), (Start: 10 @146734 has 182 MA's), (Start: 17 @146800 has 1 MA's), (19, 146842), (21, 146866), (23, 146884), (28, 146923), (36, 146995), (37, 147010), (40, 147067), (42, 147073), (43, 147100), (47, 147175), (49, 147187), (57, 147262), (58, 147265), (67, 147373), (72, 147457), (75, 147484), (80, 147571), (125, 147745), (132, 147769), (134, 147826), (139, 147913), (148, 148021), (152, 148081), (164, 148192), (166, 148204), (168, 148213), (170, 148255), (176, 148312), (189, 148444), (192, 148459), (202, 148582), (204, 148609), (205, 148612), (206, 148615), (207, 148618), (214, 148675), (217, 148723), (227, 148783), (230, 148792), (241, 148903),

Gene: Mikro\_247 Start: 147177, Stop: 150200, Start Num: 10

Candidate Starts for Mikro\_247:

(2, 146895), (Start: 10 @147177 has 182 MA's), (Start: 17 @147243 has 1 MA's), (19, 147285), (21, 147309), (23, 147327), (28, 147366), (36, 147438), (37, 147453), (40, 147510), (42, 147516), (43, 147543), (47, 147618), (49, 147630), (57, 147705), (58, 147708), (67, 147816), (72, 147900), (75, 147927), (80, 148014), (82, 148044), (83, 148062), (86, 148086), (88, 148101), (97, 148392), (98, 148452), (100, 148500), (101, 148509), (102, 148533), (104, 148683), (105, 148728), (106, 148758), (108, 148821), (111, 148836), (125, 148995), (132, 149019), (134, 149076), (139, 149163), (148, 149271), (152, 149331), (164, 149442), (166, 149454), (168, 149463), (170, 149505), (176, 149562), (189, 149694), (192, 149709), (202, 149832), (204, 149859), (205, 149862), (206, 149865), (207, 149868), (214, 149925), (217, 149973), (227, 150033), (230, 150042), (241, 150153),

Gene: MoMoMixon\_249 Start: 145693, Stop: 147909, Start Num: 10

Candidate Starts for MoMoMixon\_249:

(2, 145411), (Start: 10 @145693 has 182 MA's), (Start: 17 @145759 has 1 MA's), (19, 145801), (21, 145825), (23, 145843), (28, 145882), (36, 145954), (37, 145969), (40, 146026), (42, 146032), (43, 146059), (47, 146134), (49, 146146), (57, 146221), (58, 146224), (67, 146332), (72, 146416), (75, 146443), (80, 146530), (125, 146704), (132, 146728), (134, 146785), (139, 146872), (148, 146980), (152, 147040), (164, 147151), (166, 147163), (168, 147172), (170, 147214), (176, 147271), (189, 147403), (192, 147418), (202, 147541), (204, 147568), (205, 147571), (206, 147574), (207, 147577), (214, 147634), (217, 147682), (227, 147742), (230, 147751), (241, 147862),

Gene: Moby\_250 Start: 144428, Stop: 146644, Start Num: 10

Candidate Starts for Moby\_250:

(Start: 10 @144428 has 182 MA's), (Start: 17 @144494 has 1 MA's), (19, 144536), (21, 144560), (23, 144578), (28, 144617), (36, 144689), (37, 144704), (40, 144761), (42, 144767), (43, 144794), (47, 144869), (49, 144881), (57, 144956), (58, 144959), (67, 145067), (72, 145151), (75, 145178), (80, 145265), (125, 145439), (132, 145463), (134, 145520), (139, 145607), (148, 145715), (152, 145775), (164, 145886), (166, 145898), (170, 145949), (176, 146006), (192, 146153), (202, 146276), (204,

146303), (205, 146306), (206, 146309), (207, 146312), (214, 146369), (217, 146417), (227, 146477), (230, 146486), (241, 146597),

Gene: Moiqah\_249 Start: 144405, Stop: 146621, Start Num: 10

Candidate Starts for Moiqah\_249:

(Start: 10 @144405 has 182 MA's), (Start: 17 @144471 has 1 MA's), (19, 144513), (21, 144537), (23, 144555), (28, 144594), (36, 144666), (37, 144681), (40, 144738), (42, 144744), (43, 144771), (47, 144846), (49, 144858), (57, 144933), (58, 144936), (67, 145044), (72, 145128), (75, 145155), (80, 145242), (125, 145416), (132, 145440), (134, 145497), (139, 145584), (148, 145692), (152, 145752), (164, 145863), (166, 145875), (170, 145926), (176, 145983), (192, 146130), (202, 146253), (204, 146280), (205, 146283), (206, 146286), (207, 146289), (214, 146346), (217, 146394), (227, 146454), (230, 146463), (241, 146574),

Gene: Momo\_255 Start: 144824, Stop: 147847, Start Num: 10

Candidate Starts for Momo\_255:

(2, 144542), (Start: 10 @144824 has 182 MA's), (Start: 17 @144890 has 1 MA's), (19, 144932), (21, 144956), (23, 144974), (28, 145013), (36, 145085), (37, 145100), (40, 145157), (42, 145163), (43, 145190), (47, 145265), (49, 145277), (57, 145352), (58, 145355), (67, 145463), (75, 145574), (80, 145661), (82, 145691), (83, 145709), (86, 145733), (88, 145748), (97, 146039), (98, 146099), (100, 146147), (101, 146156), (103, 146228), (104, 146330), (105, 146375), (106, 146405), (108, 146468), (111, 146483), (125, 146642), (132, 146666), (134, 146723), (139, 146810), (148, 146918), (164, 147089), (166, 147101), (170, 147152), (176, 147209), (192, 147356), (202, 147479), (204, 147506), (205, 147509), (206, 147512), (207, 147515), (214, 147572), (217, 147620), (227, 147680), (230, 147689), (241, 147800),

Gene: Montpel\_250 Start: 146510, Stop: 149533, Start Num: 10

Candidate Starts for Montpel\_250:

(Start: 10 @146510 has 182 MA's), (Start: 17 @146576 has 1 MA's), (19, 146618), (21, 146642), (23, 146660), (28, 146699), (36, 146771), (37, 146786), (40, 146843), (42, 146849), (43, 146876), (47, 146951), (49, 146963), (57, 147038), (58, 147041), (67, 147149), (75, 147260), (80, 147347), (82, 147377), (83, 147395), (85, 147410), (86, 147419), (88, 147434), (97, 147725), (98, 147785), (100, 147833), (101, 147842), (103, 147914), (104, 148016), (105, 148061), (106, 148091), (108, 148154), (111, 148169), (125, 148328), (132, 148352), (134, 148409), (139, 148496), (148, 148604), (152, 148664), (164, 148775), (166, 148787), (170, 148838), (176, 148895), (192, 149042), (202, 149165), (204, 149192), (205, 149195), (206, 149198), (207, 149201), (214, 149258), (217, 149306), (227, 149366), (230, 149375), (241, 149486),

Gene: Morizzled23\_251 Start: 144640, Stop: 147663, Start Num: 10

Candidate Starts for Morizzled23\_251:

(2, 144358), (Start: 10 @144640 has 182 MA's), (Start: 17 @144706 has 1 MA's), (19, 144748), (21, 144772), (23, 144790), (28, 144829), (36, 144901), (37, 144916), (40, 144973), (42, 144979), (43, 145006), (47, 145081), (49, 145093), (57, 145168), (58, 145171), (67, 145279), (72, 145363), (75, 145390), (80, 145477), (82, 145507), (83, 145525), (86, 145549), (88, 145564), (97, 145855), (98, 145915), (100, 145963), (101, 145972), (103, 146044), (104, 146146), (105, 146191), (106, 146221), (108, 146284), (111, 146299), (125, 146458), (132, 146482), (134, 146539), (139, 146626), (148, 146734), (152, 146794), (164, 146905), (166, 146917), (170, 146968), (176, 147025), (192, 147172), (202, 147295), (204, 147322), (205, 147325), (206, 147328), (207, 147331), (214, 147388), (217, 147436), (227, 147496), (230, 147505), (241, 147616),

Gene: Myrna\_246 Start: 148768, Stop: 151059, Start Num: 10

Candidate Starts for Myrna\_246:

(1, 148270), (Start: 10 @148768 has 182 MA's), (Start: 17 @148837 has 1 MA's), (20, 148900), (24, 148927), (27, 148957), (35, 149026), (36, 149032), (42, 149110), (47, 149212), (49, 149224), (50,

149233), (57, 149299), (60, 149332), (65, 149395), (77, 149527), (78, 149560), (115, 149677), (116, 149683), (118, 149743), (119, 149749), (122, 149755), (123, 149764), (128, 149803), (134, 149869), (137, 149914), (139, 149956), (141, 149965), (146, 150049), (148, 150061), (150, 150091), (151, 150094), (154, 150187), (157, 150232), (159, 150256), (161, 150280), (162, 150292), (168, 150325), (170, 150367), (172, 150373), (181, 150487), (192, 150571), (193, 150607), (204, 150709), (205, 150712), (206, 150715), (209, 150724), (219, 150832), (222, 150847), (229, 150883), (237, 150964),

Gene: Naija\_254 Start: 145527, Stop: 148550, Start Num: 10

Candidate Starts for Naija\_254:

(2, 145245), (Start: 10 @145527 has 182 MA's), (Start: 17 @145593 has 1 MA's), (19, 145635), (21, 145659), (23, 145677), (28, 145716), (36, 145788), (37, 145803), (40, 145860), (42, 145866), (43, 145893), (47, 145968), (49, 145980), (57, 146055), (58, 146058), (67, 146166), (75, 146277), (80, 146364), (82, 146394), (83, 146412), (86, 146436), (88, 146451), (97, 146742), (98, 146802), (100, 146850), (101, 146859), (103, 146931), (104, 147033), (105, 147078), (106, 147108), (108, 147171), (111, 147186), (125, 147345), (132, 147369), (134, 147426), (139, 147513), (148, 147621), (164, 147792), (166, 147804), (170, 147855), (176, 147912), (192, 148059), (202, 148182), (204, 148209), (205, 148212), (206, 148215), (207, 148218), (214, 148275), (217, 148323), (227, 148383), (230, 148392), (241, 148503),

Gene: Napoleon13\_250 Start: 144556, Stop: 147579, Start Num: 10

Candidate Starts for Napoleon13\_250:

(2, 144274), (Start: 10 @144556 has 182 MA's), (Start: 17 @144622 has 1 MA's), (19, 144664), (21, 144688), (23, 144706), (28, 144745), (36, 144817), (37, 144832), (40, 144889), (42, 144895), (43, 144922), (47, 144997), (49, 145009), (57, 145084), (58, 145087), (67, 145195), (75, 145306), (80, 145393), (82, 145423), (83, 145441), (86, 145465), (88, 145480), (97, 145771), (98, 145831), (100, 145879), (101, 145888), (103, 145960), (104, 146062), (105, 146107), (106, 146137), (108, 146200), (111, 146215), (125, 146374), (132, 146398), (134, 146455), (139, 146542), (148, 146650), (152, 146710), (164, 146821), (166, 146833), (170, 146884), (176, 146941), (192, 147088), (202, 147211), (204, 147238), (205, 147241), (206, 147244), (207, 147247), (214, 147304), (217, 147352), (227, 147412), (230, 147421), (241, 147532),

Gene: Nappy\_252 Start: 146633, Stop: 148849, Start Num: 10

Candidate Starts for Nappy\_252:

(2, 146351), (Start: 10 @146633 has 182 MA's), (Start: 17 @146699 has 1 MA's), (19, 146741), (21, 146765), (23, 146783), (28, 146822), (36, 146894), (37, 146909), (40, 146966), (42, 146972), (43, 146999), (47, 147074), (49, 147086), (57, 147161), (58, 147164), (67, 147272), (72, 147356), (75, 147383), (80, 147470), (125, 147644), (132, 147668), (134, 147725), (139, 147812), (148, 147920), (152, 147980), (164, 148091), (166, 148103), (168, 148112), (170, 148154), (176, 148211), (189, 148343), (192, 148358), (202, 148481), (204, 148508), (205, 148511), (206, 148514), (207, 148517), (214, 148574), (217, 148622), (227, 148682), (230, 148691), (241, 148802),

Gene: Naval22\_258 Start: 147307, Stop: 150330, Start Num: 10

Candidate Starts for Naval22\_258:

(2, 147025), (Start: 10 @147307 has 182 MA's), (Start: 17 @147373 has 1 MA's), (19, 147415), (21, 147439), (23, 147457), (28, 147496), (36, 147568), (37, 147583), (40, 147640), (42, 147646), (43, 147673), (47, 147748), (49, 147760), (57, 147835), (58, 147838), (67, 147946), (72, 148030), (75, 148057), (80, 148144), (82, 148174), (83, 148192), (86, 148216), (88, 148231), (97, 148522), (98, 148582), (100, 148630), (101, 148639), (103, 148711), (104, 148813), (105, 148858), (106, 148888), (108, 148951), (111, 148966), (125, 149125), (132, 149149), (134, 149206), (139, 149293), (148, 149401), (152, 149461), (164, 149572), (166, 149584), (168, 149593), (170, 149635), (176, 149692), (189, 149824), (192, 149839), (202, 149962), (204, 149989), (205, 149992), (206, 149995), (207, 149998), (214, 150055), (217, 150103), (227, 150163), (230, 150172), (241, 150283),

Gene: NedWong\_252 Start: 145985, Stop: 148201, Start Num: 10

Candidate Starts for NedWong\_252:

(2, 145703), (Start: 10 @145985 has 182 MA's), (Start: 17 @146051 has 1 MA's), (19, 146093), (21, 146117), (23, 146135), (28, 146174), (36, 146246), (37, 146261), (40, 146318), (42, 146324), (43, 146351), (47, 146426), (49, 146438), (57, 146513), (58, 146516), (67, 146624), (72, 146708), (75, 146735), (80, 146822), (125, 146996), (132, 147020), (134, 147077), (139, 147164), (148, 147272), (152, 147332), (164, 147443), (166, 147455), (168, 147464), (170, 147506), (176, 147563), (189, 147695), (192, 147710), (202, 147833), (204, 147860), (205, 147863), (206, 147866), (207, 147869), (214, 147926), (217, 147974), (227, 148034), (230, 148043), (241, 148154),

Gene: Ngannou\_248 Start: 144509, Stop: 147532, Start Num: 10

Candidate Starts for Ngannou\_248:

(2, 144227), (Start: 10 @144509 has 182 MA's), (Start: 17 @144575 has 1 MA's), (19, 144617), (21, 144641), (23, 144659), (28, 144698), (36, 144770), (37, 144785), (40, 144842), (42, 144848), (43, 144875), (47, 144950), (49, 144962), (57, 145037), (58, 145040), (67, 145148), (75, 145259), (80, 145346), (82, 145376), (83, 145394), (86, 145418), (88, 145433), (97, 145724), (98, 145784), (100, 145832), (101, 145841), (103, 145913), (104, 146015), (105, 146060), (106, 146090), (108, 146153), (111, 146168), (125, 146327), (132, 146351), (134, 146408), (139, 146495), (148, 146603), (164, 146774), (166, 146786), (170, 146837), (176, 146894), (192, 147041), (202, 147164), (204, 147191), (205, 147194), (206, 147197), (207, 147200), (214, 147257), (217, 147305), (227, 147365), (230, 147374), (241, 147485),

Gene: Nidhogg\_254 Start: 146353, Stop: 149376, Start Num: 10

Candidate Starts for Nidhogg\_254:

(2, 146071), (Start: 10 @146353 has 182 MA's), (Start: 17 @146419 has 1 MA's), (19, 146461), (21, 146485), (23, 146503), (28, 146542), (36, 146614), (37, 146629), (40, 146686), (42, 146692), (43, 146719), (47, 146794), (49, 146806), (57, 146881), (58, 146884), (67, 146992), (72, 147076), (75, 147103), (80, 147190), (82, 147220), (83, 147238), (86, 147262), (88, 147277), (97, 147568), (98, 147628), (100, 147676), (101, 147685), (102, 147709), (104, 147859), (105, 147904), (106, 147934), (108, 147997), (111, 148012), (125, 148171), (132, 148195), (134, 148252), (139, 148339), (148, 148447), (152, 148507), (164, 148618), (166, 148630), (168, 148639), (170, 148681), (176, 148738), (189, 148870), (192, 148885), (202, 149008), (204, 149035), (205, 149038), (206, 149041), (207, 149044), (214, 149101), (217, 149149), (227, 149209), (230, 149218), (241, 149329),

Gene: NoodleTree\_249 Start: 141104, Stop: 144127, Start Num: 10

Candidate Starts for NoodleTree\_249:

(2, 140822), (Start: 10 @141104 has 182 MA's), (Start: 17 @141170 has 1 MA's), (19, 141212), (21, 141236), (23, 141254), (28, 141293), (36, 141365), (37, 141380), (40, 141437), (42, 141443), (43, 141470), (47, 141545), (49, 141557), (57, 141632), (58, 141635), (67, 141743), (72, 141827), (75, 141854), (80, 141941), (82, 141971), (83, 141989), (86, 142013), (88, 142028), (97, 142319), (98, 142379), (100, 142427), (101, 142436), (102, 142460), (104, 142610), (105, 142655), (106, 142685), (108, 142748), (111, 142763), (125, 142922), (132, 142946), (134, 143003), (139, 143090), (148, 143198), (152, 143258), (164, 143369), (166, 143381), (168, 143390), (170, 143432), (176, 143489), (189, 143621), (192, 143636), (202, 143759), (204, 143786), (205, 143789), (206, 143792), (207, 143795), (214, 143852), (217, 143900), (227, 143960), (230, 143969), (241, 144080),

Gene: Norm\_253 Start: 146254, Stop: 148470, Start Num: 10

Candidate Starts for Norm\_253:

(2, 145972), (Start: 10 @146254 has 182 MA's), (Start: 17 @146320 has 1 MA's), (19, 146362), (21, 146386), (23, 146404), (28, 146443), (36, 146515), (37, 146530), (40, 146587), (42, 146593), (43, 146620), (47, 146695), (49, 146707), (57, 146782), (58, 146785), (67, 146893), (72, 146977), (75, 147004), (80, 147091), (125, 147265), (132, 147289), (134, 147346), (139, 147433), (148, 147541), (152, 147601), (164, 147712), (166, 147724), (168, 147733), (170, 147775), (176, 147832), (189,

147964), (192, 147979), (202, 148102), (204, 148129), (205, 148132), (206, 148135), (207, 148138), (214, 148195), (217, 148243), (227, 148303), (230, 148312), (241, 148423),

Gene: NuevoMundo\_255 Start: 146740, Stop: 148956, Start Num: 10

Candidate Starts for NuevoMundo\_255:

(Start: 9 @146734 has 2 MA's), (Start: 10 @146740 has 182 MA's), (Start: 17 @146806 has 1 MA's), (19, 146848), (21, 146872), (23, 146890), (28, 146929), (36, 147001), (37, 147016), (40, 147073), (42, 147079), (43, 147106), (47, 147181), (49, 147193), (57, 147268), (58, 147271), (67, 147379), (75, 147490), (80, 147577), (125, 147751), (132, 147775), (134, 147832), (139, 147919), (148, 148027), (152, 148087), (164, 148198), (166, 148210), (170, 148261), (176, 148318), (192, 148465), (202, 148588), (204, 148615), (205, 148618), (206, 148621), (207, 148624), (214, 148681), (217, 148729), (227, 148789), (230, 148798), (241, 148909),

Gene: OrediggerDelux\_250 Start: 146929, Stop: 149145, Start Num: 10

Candidate Starts for OrediggerDelux\_250:

(2, 146647), (Start: 10 @146929 has 182 MA's), (Start: 17 @146995 has 1 MA's), (19, 147037), (21, 147061), (23, 147079), (28, 147118), (36, 147190), (37, 147205), (40, 147262), (42, 147268), (43, 147295), (47, 147370), (49, 147382), (57, 147457), (58, 147460), (67, 147568), (72, 147652), (75, 147679), (80, 147766), (125, 147940), (132, 147964), (134, 148021), (139, 148108), (148, 148216), (152, 148276), (164, 148387), (166, 148399), (168, 148408), (170, 148450), (176, 148507), (189, 148639), (192, 148654), (202, 148777), (204, 148804), (205, 148807), (206, 148810), (207, 148813), (214, 148870), (217, 148918), (227, 148978), (230, 148987), (241, 149098),

Gene: ParkTD\_252 Start: 145824, Stop: 148040, Start Num: 10

Candidate Starts for ParkTD\_252:

(2, 145542), (Start: 10 @145824 has 182 MA's), (Start: 17 @145890 has 1 MA's), (19, 145932), (21, 145956), (23, 145974), (28, 146013), (36, 146085), (37, 146100), (40, 146157), (42, 146163), (43, 146190), (47, 146265), (49, 146277), (57, 146352), (58, 146355), (67, 146463), (72, 146547), (75, 146574), (80, 146661), (125, 146835), (132, 146859), (134, 146916), (139, 147003), (148, 147111), (152, 147171), (164, 147282), (166, 147294), (168, 147303), (170, 147345), (176, 147402), (189, 147534), (192, 147549), (202, 147672), (204, 147699), (205, 147702), (206, 147705), (207, 147708), (214, 147765), (217, 147813), (227, 147873), (230, 147882), (241, 147993),

Gene: Patter\_255 Start: 145484, Stop: 148507, Start Num: 10

Candidate Starts for Patter\_255:

(2, 145202), (Start: 10 @145484 has 182 MA's), (Start: 17 @145550 has 1 MA's), (19, 145592), (21, 145616), (23, 145634), (28, 145673), (36, 145745), (37, 145760), (40, 145817), (42, 145823), (43, 145850), (47, 145925), (49, 145937), (57, 146012), (58, 146015), (67, 146123), (75, 146234), (80, 146321), (82, 146351), (83, 146369), (86, 146393), (88, 146408), (97, 146699), (98, 146759), (100, 146807), (101, 146816), (103, 146888), (104, 146990), (105, 147035), (106, 147065), (108, 147128), (111, 147143), (125, 147302), (132, 147326), (134, 147383), (139, 147470), (148, 147578), (152, 147638), (164, 147749), (166, 147761), (170, 147812), (176, 147869), (192, 148016), (202, 148139), (204, 148166), (205, 148169), (206, 148172), (207, 148175), (214, 148232), (217, 148280), (227, 148340), (230, 148349), (241, 148460),

Gene: Phabba\_256 Start: 148154, Stop: 150448, Start Num: 10

Candidate Starts for Phabba\_256:

(Start: 10 @148154 has 182 MA's), (Start: 17 @148226 has 1 MA's), (20, 148289), (24, 148316), (35, 148415), (36, 148421), (38, 148445), (42, 148499), (47, 148601), (49, 148613), (50, 148622), (57, 148688), (60, 148721), (65, 148784), (68, 148805), (77, 148916), (78, 148949), (115, 149066), (116, 149072), (118, 149132), (122, 149144), (123, 149153), (128, 149192), (134, 149258), (137, 149303), (139, 149345), (141, 149354), (146, 149438), (148, 149450), (151, 149483), (154, 149576), (158, 149633), (159, 149645), (163, 149684), (168, 149714), (170, 149756), (172, 149762), (181, 149876),

(186, 149903), (193, 149996), (194, 150005), (204, 150098), (205, 150101), (206, 150104), (209, 150113), (219, 150221), (222, 150236), (229, 150272), (233, 150329), (237, 150353), (239, 150368),

Gene: PharkleMinkus\_257 Start: 144877, Stop: 147900, Start Num: 10

Candidate Starts for PharkleMinkus\_257:

(2, 144595), (Start: 10 @144877 has 182 MA's), (Start: 17 @144943 has 1 MA's), (19, 144985), (21, 145009), (23, 145027), (28, 145066), (36, 145138), (37, 145153), (40, 145210), (42, 145216), (43, 145243), (47, 145318), (49, 145330), (57, 145405), (58, 145408), (67, 145516), (72, 145600), (75, 145627), (80, 145714), (82, 145744), (83, 145762), (86, 145786), (88, 145801), (97, 146092), (98, 146152), (100, 146200), (101, 146209), (102, 146233), (104, 146383), (105, 146428), (106, 146458), (108, 146521), (111, 146536), (125, 146695), (132, 146719), (134, 146776), (139, 146863), (148, 146971), (152, 147031), (164, 147142), (166, 147154), (168, 147163), (170, 147205), (176, 147262), (189, 147394), (192, 147409), (202, 147532), (204, 147559), (205, 147562), (206, 147565), (207, 147568), (214, 147625), (217, 147673), (227, 147733), (230, 147742), (241, 147853),

Gene: Phlegm\_258 Start: 146230, Stop: 149253, Start Num: 10

Candidate Starts for Phlegm\_258:

(2, 145948), (Start: 10 @146230 has 182 MA's), (Start: 17 @146296 has 1 MA's), (19, 146338), (21, 146362), (23, 146380), (28, 146419), (36, 146491), (37, 146506), (40, 146563), (42, 146569), (43, 146596), (47, 146671), (49, 146683), (57, 146758), (58, 146761), (67, 146869), (75, 146980), (80, 147067), (82, 147097), (83, 147115), (86, 147139), (88, 147154), (97, 147445), (98, 147505), (100, 147553), (101, 147562), (103, 147634), (104, 147736), (105, 147781), (106, 147811), (108, 147874), (111, 147889), (125, 148048), (132, 148072), (134, 148129), (139, 148216), (148, 148324), (164, 148495), (166, 148507), (170, 148558), (176, 148615), (192, 148762), (202, 148885), (204, 148912), (205, 148915), (206, 148918), (207, 148921), (214, 148978), (217, 149026), (227, 149086), (230, 149095), (241, 149206),

Gene: Phox\_254 Start: 145479, Stop: 147695, Start Num: 10

Candidate Starts for Phox\_254:

(2, 145197), (Start: 10 @145479 has 182 MA's), (Start: 17 @145545 has 1 MA's), (19, 145587), (21, 145611), (23, 145629), (28, 145668), (36, 145740), (37, 145755), (40, 145812), (42, 145818), (43, 145845), (47, 145920), (49, 145932), (57, 146007), (58, 146010), (67, 146118), (72, 146202), (75, 146229), (80, 146316), (125, 146490), (132, 146514), (134, 146571), (139, 146658), (148, 146766), (152, 146826), (164, 146937), (166, 146949), (168, 146958), (170, 147000), (176, 147057), (189, 147189), (192, 147204), (202, 147327), (204, 147354), (205, 147357), (206, 147360), (207, 147363), (214, 147420), (217, 147468), (227, 147528), (230, 147537), (241, 147648),

Gene: Phrappuccino\_2 Start: 1651, Stop: 4911, Start Num: 7

Candidate Starts for Phrappuccino\_2:

(Start: 7 @1651 has 2 MA's), (28, 1867), (34, 1930), (36, 1939), (39, 2005), (44, 2053), (46, 2116), (50, 2140), (56, 2203), (57, 2206), (59, 2245), (63, 2281), (64, 2299), (65, 2317), (67, 2332), (69, 2350), (73, 2422), (75, 2443), (76, 2446), (84, 2590), (87, 2617), (89, 2674), (90, 2698), (91, 2716), (92, 2770), (93, 2830), (94, 2851), (95, 2863), (96, 2890), (99, 3022), (106, 3283), (107, 3310), (109, 3349), (110, 3358), (120, 3517), (121, 3526), (124, 3559), (126, 3598), (127, 3616), (129, 3655), (131, 3661), (135, 3772), (138, 3835), (142, 3901), (145, 3955), (148, 3991), (153, 4102), (156, 4147), (160, 4171), (162, 4201), (168, 4234), (171, 4297), (172, 4300), (185, 4432), (190, 4492), (191, 4498), (195, 4552), (198, 4573), (200, 4588), (206, 4645), (207, 4648), (212, 4702), (225, 4807),

Gene: Phusco\_252 Start: 145062, Stop: 148085, Start Num: 10

Candidate Starts for Phusco\_252:

(2, 144780), (Start: 10 @145062 has 182 MA's), (Start: 17 @145128 has 1 MA's), (19, 145170), (21, 145194), (23, 145212), (28, 145251), (36, 145323), (37, 145338), (40, 145395), (42, 145401), (43, 145428), (47, 145503), (49, 145515), (57, 145590), (58, 145593), (67, 145701), (72, 145785), (75,

145812), (80, 145899), (82, 145929), (83, 145947), (86, 145971), (88, 145986), (97, 146277), (98, 146337), (100, 146385), (101, 146394), (103, 146466), (104, 146568), (105, 146613), (106, 146643), (108, 146706), (111, 146721), (125, 146880), (132, 146904), (134, 146961), (139, 147048), (148, 147156), (152, 147216), (164, 147327), (166, 147339), (168, 147348), (170, 147390), (176, 147447), (189, 147579), (192, 147594), (202, 147717), (204, 147744), (205, 147747), (206, 147750), (207, 147753), (214, 147810), (217, 147858), (227, 147918), (230, 147927), (241, 148038),

Gene: Pier\_252 Start: 146355, Stop: 149378, Start Num: 10

Candidate Starts for Pier\_252:

(2, 146073), (Start: 10 @146355 has 182 MA's), (Start: 17 @146421 has 1 MA's), (19, 146463), (21, 146487), (23, 146505), (28, 146544), (36, 146616), (37, 146631), (40, 146688), (42, 146694), (43, 146721), (47, 146796), (49, 146808), (57, 146883), (58, 146886), (67, 146994), (72, 147078), (75, 147105), (80, 147192), (82, 147222), (83, 147240), (86, 147264), (88, 147279), (97, 147570), (98, 147630), (100, 147678), (101, 147687), (102, 147711), (104, 147861), (105, 147906), (106, 147936), (108, 147999), (111, 148014), (125, 148173), (132, 148197), (134, 148254), (139, 148341), (148, 148449), (152, 148509), (164, 148620), (166, 148632), (168, 148641), (170, 148683), (176, 148740), (189, 148872), (192, 148887), (202, 149010), (204, 149037), (205, 149040), (206, 149043), (207, 149046), (214, 149103), (217, 149151), (227, 149211), (230, 149220), (241, 149331),

Gene: Pinkcreek\_233 Start: 142681, Stop: 145704, Start Num: 10

Candidate Starts for Pinkcreek\_233:

(Start: 10 @142681 has 182 MA's), (Start: 17 @142747 has 1 MA's), (19, 142789), (21, 142813), (23, 142831), (28, 142870), (36, 142942), (37, 142957), (40, 143014), (42, 143020), (43, 143047), (47, 143122), (49, 143134), (57, 143209), (58, 143212), (67, 143320), (75, 143431), (80, 143518), (82, 143548), (83, 143566), (86, 143590), (88, 143605), (97, 143896), (98, 143956), (100, 144004), (101, 144013), (102, 144037), (104, 144187), (105, 144232), (106, 144262), (108, 144325), (111, 144340), (125, 144499), (132, 144523), (134, 144580), (139, 144667), (148, 144775), (152, 144835), (164, 144946), (166, 144958), (168, 144967), (170, 145009), (176, 145066), (189, 145198), (192, 145213), (202, 145336), (204, 145363), (205, 145366), (206, 145369), (207, 145372), (214, 145429), (217, 145477), (227, 145537), (230, 145546), (241, 145657),

Gene: Pio\_260 Start: 147558, Stop: 149774, Start Num: 10

Candidate Starts for Pio\_260:

(2, 147276), (Start: 10 @147558 has 182 MA's), (Start: 17 @147624 has 1 MA's), (19, 147666), (21, 147690), (23, 147708), (28, 147747), (36, 147819), (37, 147834), (40, 147891), (42, 147897), (43, 147924), (47, 147999), (49, 148011), (57, 148086), (58, 148089), (67, 148197), (72, 148281), (75, 148308), (80, 148395), (125, 148569), (132, 148593), (134, 148650), (139, 148737), (148, 148845), (152, 148905), (164, 149016), (166, 149028), (168, 149037), (170, 149079), (176, 149136), (189, 149268), (192, 149283), (202, 149406), (204, 149433), (205, 149436), (206, 149439), (207, 149442), (214, 149499), (217, 149547), (227, 149607), (230, 149616), (241, 149727),

Gene: Pivoine\_254 Start: 145527, Stop: 148550, Start Num: 10

Candidate Starts for Pivoine\_254:

(2, 145245), (Start: 10 @145527 has 182 MA's), (Start: 17 @145593 has 1 MA's), (19, 145635), (21, 145659), (23, 145677), (28, 145716), (36, 145788), (37, 145803), (40, 145860), (42, 145866), (43, 145893), (47, 145968), (49, 145980), (57, 146055), (58, 146058), (67, 146166), (75, 146277), (80, 146364), (82, 146394), (83, 146412), (86, 146436), (88, 146451), (97, 146742), (98, 146802), (100, 146850), (101, 146859), (103, 146931), (104, 147033), (105, 147078), (106, 147108), (108, 147171), (111, 147186), (125, 147345), (132, 147369), (134, 147426), (139, 147513), (148, 147621), (164, 147792), (166, 147804), (170, 147855), (176, 147912), (192, 148059), (202, 148182), (204, 148209), (205, 148212), (206, 148215), (207, 148218), (214, 148275), (217, 148323), (227, 148383), (230, 148392), (241, 148503),

Gene: Pleione\_257 Start: 146290, Stop: 148506, Start Num: 10

Candidate Starts for Pleione\_257:

(2, 146008), (Start: 10 @146290 has 182 MA's), (Start: 17 @146356 has 1 MA's), (19, 146398), (21, 146422), (23, 146440), (28, 146479), (36, 146551), (37, 146566), (40, 146623), (42, 146629), (43, 146656), (47, 146731), (49, 146743), (57, 146818), (58, 146821), (67, 146929), (72, 147013), (75, 147040), (80, 147127), (125, 147301), (132, 147325), (134, 147382), (139, 147469), (148, 147577), (152, 147637), (164, 147748), (166, 147760), (168, 147769), (170, 147811), (176, 147868), (189, 148000), (192, 148015), (202, 148138), (204, 148165), (205, 148168), (206, 148171), (207, 148174), (214, 148231), (217, 148279), (227, 148339), (230, 148348), (241, 148459),

Gene: Primadonna\_249 Start: 145639, Stop: 148662, Start Num: 10

Candidate Starts for Primadonna\_249:

(2, 145357), (Start: 10 @145639 has 182 MA's), (Start: 17 @145705 has 1 MA's), (19, 145747), (21, 145771), (23, 145789), (28, 145828), (36, 145900), (37, 145915), (40, 145972), (42, 145978), (43, 146005), (47, 146080), (49, 146092), (57, 146167), (58, 146170), (67, 146278), (72, 146362), (75, 146389), (80, 146476), (82, 146506), (83, 146524), (86, 146548), (88, 146563), (97, 146854), (98, 146914), (100, 146962), (101, 146971), (102, 146995), (104, 147145), (105, 147190), (106, 147220), (108, 147283), (111, 147298), (125, 147457), (132, 147481), (134, 147538), (139, 147625), (148, 147733), (152, 147793), (164, 147904), (166, 147916), (170, 147967), (176, 148024), (192, 148171), (202, 148294), (204, 148321), (205, 148324), (206, 148327), (207, 148330), (214, 148387), (217, 148435), (227, 148495), (230, 148504), (241, 148615),

Gene: Pupper\_174 Start: 126973, Stop: 129177, Start Num: 13

Candidate Starts for Pupper\_174:

(3, 126796), (4, 126799), (5, 126823), (Start: 13 @126973 has 2 MA's), (15, 127009), (Start: 17 @127018 has 1 MA's), (22, 127087), (28, 127141), (30, 127162), (36, 127213), (41, 127288), (42, 127291), (45, 127354), (48, 127402), (51, 127417), (57, 127480), (65, 127576), (67, 127591), (74, 127693), (75, 127702), (77, 127708), (80, 127789), (113, 127828), (116, 127864), (117, 127894), (128, 127975), (133, 127990), (135, 128044), (139, 128128), (141, 128137), (146, 128221), (147, 128224), (148, 128233), (150, 128263), (151, 128266), (155, 128365), (164, 128488), (170, 128551), (175, 128599), (181, 128674), (183, 128683), (206, 128902), (209, 128911), (219, 129022), (223, 129040), (226, 129064), (227, 129067), (232, 129106), (238, 129151),

Gene: Pupusa\_256 Start: 146853, Stop: 149876, Start Num: 10

Candidate Starts for Pupusa\_256:

(2, 146571), (Start: 10 @146853 has 182 MA's), (Start: 17 @146919 has 1 MA's), (19, 146961), (21, 146985), (23, 147003), (28, 147042), (36, 147114), (37, 147129), (40, 147186), (42, 147192), (43, 147219), (47, 147294), (49, 147306), (57, 147381), (58, 147384), (67, 147492), (72, 147576), (75, 147603), (80, 147690), (82, 147720), (83, 147738), (86, 147762), (88, 147777), (97, 148068), (98, 148128), (100, 148176), (101, 148185), (102, 148209), (104, 148359), (105, 148404), (106, 148434), (108, 148497), (111, 148512), (125, 148671), (132, 148695), (134, 148752), (139, 148839), (148, 148947), (152, 149007), (164, 149118), (166, 149130), (168, 149139), (170, 149181), (176, 149238), (189, 149370), (192, 149385), (202, 149508), (204, 149535), (205, 149538), (206, 149541), (207, 149544), (214, 149601), (217, 149649), (227, 149709), (230, 149718), (241, 149829),

Gene: PurduePete\_254 Start: 147004, Stop: 149220, Start Num: 10

Candidate Starts for PurduePete\_254:

(2, 146722), (Start: 10 @147004 has 182 MA's), (Start: 17 @147070 has 1 MA's), (19, 147112), (21, 147136), (23, 147154), (28, 147193), (36, 147265), (37, 147280), (40, 147337), (42, 147343), (43, 147370), (47, 147445), (49, 147457), (57, 147532), (58, 147535), (67, 147643), (72, 147727), (75, 147754), (80, 147841), (125, 148015), (132, 148039), (134, 148096), (139, 148183), (148, 148291), (152, 148351), (164, 148462), (166, 148474), (168, 148483), (170, 148525), (176, 148582), (192, 148729), (202, 148852), (204, 148879), (205, 148882), (206, 148885), (207, 148888), (214, 148945),

(217, 148993), (227, 149053), (230, 149062), (241, 149173),

Gene: QBert\_245 Start: 143877, Stop: 146900, Start Num: 10

Candidate Starts for QBert\_245:

(2, 143595), (Start: 10 @143877 has 182 MA's), (Start: 17 @143943 has 1 MA's), (19, 143985), (21, 144009), (23, 144027), (28, 144066), (36, 144138), (37, 144153), (40, 144210), (42, 144216), (43, 144243), (47, 144318), (49, 144330), (57, 144405), (58, 144408), (67, 144516), (72, 144600), (75, 144627), (80, 144714), (82, 144744), (83, 144762), (86, 144786), (88, 144801), (97, 145092), (98, 145152), (100, 145200), (101, 145209), (103, 145281), (104, 145383), (105, 145428), (106, 145458), (108, 145521), (111, 145536), (125, 145695), (132, 145719), (134, 145776), (139, 145863), (148, 145971), (152, 146031), (164, 146142), (166, 146154), (168, 146163), (170, 146205), (176, 146262), (189, 146394), (192, 146409), (202, 146532), (204, 146559), (205, 146562), (206, 146565), (207, 146568), (214, 146625), (217, 146673), (227, 146733), (230, 146742), (241, 146853),

Gene: Quasimodo\_256 Start: 145863, Stop: 148886, Start Num: 10

Candidate Starts for Quasimodo\_256:

(2, 145581), (Start: 10 @145863 has 182 MA's), (Start: 17 @145929 has 1 MA's), (19, 145971), (21, 145995), (23, 146013), (28, 146052), (36, 146124), (37, 146139), (40, 146196), (42, 146202), (43, 146229), (47, 146304), (49, 146316), (57, 146391), (58, 146394), (67, 146502), (75, 146613), (80, 146700), (82, 146730), (83, 146748), (86, 146772), (88, 146787), (97, 147078), (98, 147138), (100, 147186), (101, 147195), (103, 147267), (104, 147369), (105, 147414), (106, 147444), (108, 147507), (111, 147522), (125, 147681), (132, 147705), (134, 147762), (139, 147849), (148, 147957), (164, 148128), (166, 148140), (170, 148191), (176, 148248), (192, 148395), (202, 148518), (204, 148545), (205, 148548), (206, 148551), (207, 148554), (214, 148611), (217, 148659), (227, 148719), (230, 148728), (241, 148839),

Gene: Rabinovish\_246 Start: 144367, Stop: 147390, Start Num: 10

Candidate Starts for Rabinovish\_246:

(2, 144085), (Start: 10 @144367 has 182 MA's), (Start: 17 @144433 has 1 MA's), (19, 144475), (21, 144499), (23, 144517), (28, 144556), (36, 144628), (37, 144643), (40, 144700), (42, 144706), (43, 144733), (47, 144808), (49, 144820), (57, 144895), (58, 144898), (67, 145006), (75, 145117), (80, 145204), (82, 145234), (83, 145252), (86, 145276), (88, 145291), (97, 145582), (98, 145642), (100, 145690), (101, 145699), (102, 145723), (104, 145873), (105, 145918), (106, 145948), (108, 146011), (111, 146026), (125, 146185), (132, 146209), (134, 146266), (148, 146461), (152, 146521), (164, 146632), (166, 146644), (170, 146695), (176, 146752), (192, 146899), (202, 147022), (204, 147049), (205, 147052), (206, 147055), (207, 147058), (214, 147115), (217, 147163), (227, 147223), (230, 147232), (241, 147343),

Gene: Rahel\_255 Start: 145965, Stop: 148988, Start Num: 10

Candidate Starts for Rahel\_255:

(2, 145683), (Start: 10 @145965 has 182 MA's), (Start: 17 @146031 has 1 MA's), (19, 146073), (21, 146097), (23, 146115), (28, 146154), (36, 146226), (37, 146241), (40, 146298), (42, 146304), (43, 146331), (47, 146406), (49, 146418), (57, 146493), (58, 146496), (67, 146604), (72, 146688), (75, 146715), (80, 146802), (82, 146832), (83, 146850), (86, 146874), (88, 146889), (97, 147180), (98, 147240), (100, 147288), (101, 147297), (103, 147369), (104, 147471), (105, 147516), (106, 147546), (108, 147609), (111, 147624), (125, 147783), (132, 147807), (134, 147864), (139, 147951), (148, 148059), (152, 148119), (164, 148230), (166, 148242), (168, 148251), (170, 148293), (176, 148350), (189, 148482), (192, 148497), (202, 148620), (204, 148647), (205, 148650), (206, 148653), (207, 148656), (214, 148713), (217, 148761), (227, 148821), (230, 148830), (241, 148941),

Gene: RedWattleHog\_1 Start: 1, Stop: 2160, Start Num: 8

Candidate Starts for RedWattleHog\_1:

(Start: 8 @1 has 2 MA's), (14, 58), (16, 76), (18, 109), (25, 172), (28, 202), (33, 262), (36, 274), (45, 415), (46, 451), (50, 475), (65, 637), (71, 694), (75, 763), (112, 880), (116, 925), (128, 1045), (132, 1054), (139, 1153), (140, 1156), (144, 1219), (148, 1258), (149, 1270), (170, 1504), (175, 1552), (177, 1591), (181, 1627), (182, 1633), (188, 1675), (195, 1789), (210, 1900), (211, 1936),

Gene: Rizal\_242 Start: 143780, Stop: 146803, Start Num: 10

Candidate Starts for Rizal\_242:

(2, 143498), (Start: 10 @143780 has 182 MA's), (Start: 17 @143846 has 1 MA's), (19, 143888), (21, 143912), (23, 143930), (28, 143969), (36, 144041), (37, 144056), (40, 144113), (42, 144119), (43, 144146), (47, 144221), (49, 144233), (57, 144308), (58, 144311), (67, 144419), (72, 144503), (75, 144530), (80, 144617), (82, 144647), (83, 144665), (86, 144689), (88, 144704), (97, 144995), (98, 145055), (100, 145103), (101, 145112), (103, 145184), (104, 145286), (105, 145331), (106, 145361), (108, 145424), (111, 145439), (125, 145598), (132, 145622), (134, 145679), (139, 145766), (148, 145874), (152, 145934), (164, 146045), (166, 146057), (168, 146066), (170, 146108), (176, 146165), (189, 146297), (192, 146312), (202, 146435), (204, 146462), (205, 146465), (206, 146468), (207, 146471), (214, 146528), (217, 146576), (227, 146636), (230, 146645), (241, 146756),

Gene: RoMag\_248 Start: 145561, Stop: 148584, Start Num: 10

Candidate Starts for RoMag\_248:

(2, 145279), (Start: 10 @145561 has 182 MA's), (Start: 17 @145627 has 1 MA's), (19, 145669), (21, 145693), (23, 145711), (28, 145750), (36, 145822), (37, 145837), (40, 145894), (42, 145900), (43, 145927), (47, 146002), (49, 146014), (57, 146089), (58, 146092), (67, 146200), (72, 146284), (75, 146311), (80, 146398), (82, 146428), (83, 146446), (86, 146470), (88, 146485), (97, 146776), (98, 146836), (100, 146884), (101, 146893), (102, 146917), (104, 147067), (105, 147112), (106, 147142), (108, 147205), (111, 147220), (125, 147379), (132, 147403), (134, 147460), (139, 147547), (148, 147655), (152, 147715), (164, 147826), (166, 147838), (168, 147847), (170, 147889), (176, 147946), (189, 148078), (192, 148093), (202, 148216), (204, 148243), (205, 148246), (206, 148249), (207, 148252), (214, 148309), (217, 148357), (227, 148417), (230, 148426), (241, 148537),

Gene: Rocha\_249 Start: 145126, Stop: 148149, Start Num: 10

Candidate Starts for Rocha\_249:

(2, 144844), (Start: 10 @145126 has 182 MA's), (Start: 17 @145192 has 1 MA's), (19, 145234), (21, 145258), (23, 145276), (28, 145315), (36, 145387), (37, 145402), (40, 145459), (42, 145465), (43, 145492), (47, 145567), (49, 145579), (57, 145654), (58, 145657), (67, 145765), (72, 145849), (75, 145876), (80, 145963), (82, 145993), (83, 146011), (86, 146035), (88, 146050), (97, 146341), (98, 146401), (100, 146449), (101, 146458), (102, 146482), (104, 146632), (105, 146677), (106, 146707), (108, 146770), (111, 146785), (125, 146944), (132, 146968), (134, 147025), (139, 147112), (148, 147220), (152, 147280), (164, 147391), (166, 147403), (170, 147454), (176, 147511), (192, 147658), (202, 147781), (204, 147808), (205, 147811), (206, 147814), (207, 147817), (214, 147874), (217, 147922), (227, 147982), (230, 147991), (241, 148102),

Gene: Ronan\_249 Start: 143942, Stop: 146965, Start Num: 10

Candidate Starts for Ronan\_249:

(Start: 10 @143942 has 182 MA's), (Start: 17 @144008 has 1 MA's), (19, 144050), (21, 144074), (23, 144092), (28, 144131), (36, 144203), (37, 144218), (40, 144275), (42, 144281), (43, 144308), (47, 144383), (49, 144395), (57, 144470), (58, 144473), (67, 144581), (72, 144665), (75, 144692), (80, 144779), (82, 144809), (83, 144827), (86, 144851), (88, 144866), (97, 145157), (98, 145217), (100, 145265), (101, 145274), (102, 145298), (104, 145448), (105, 145493), (106, 145523), (108, 145586), (111, 145601), (125, 145760), (132, 145784), (134, 145841), (139, 145928), (148, 146036), (152, 146096), (164, 146207), (166, 146219), (168, 146228), (170, 146270), (176, 146327), (189, 146459), (192, 146474), (202, 146597), (204, 146624), (205, 146627), (206, 146630), (207, 146633), (214, 146690), (217, 146738), (227, 146798), (230, 146807), (241, 146918),

Gene: Roots515\_256 Start: 147106, Stop: 149322, Start Num: 10

Candidate Starts for Roots515\_256:

(2, 146824), (Start: 10 @147106 has 182 MA's), (Start: 17 @147172 has 1 MA's), (19, 147214), (21, 147238), (23, 147256), (28, 147295), (36, 147367), (37, 147382), (40, 147439), (42, 147445), (43, 147472), (47, 147547), (49, 147559), (57, 147634), (58, 147637), (67, 147745), (72, 147829), (75, 147856), (80, 147943), (125, 148117), (132, 148141), (134, 148198), (139, 148285), (148, 148393), (152, 148453), (164, 148564), (166, 148576), (168, 148585), (170, 148627), (176, 148684), (189, 148816), (192, 148831), (202, 148954), (204, 148981), (205, 148984), (206, 148987), (207, 148990), (214, 149047), (217, 149095), (227, 149155), (230, 149164), (241, 149275),

Gene: SCentae\_173 Start: 127166, Stop: 129370, Start Num: 13

Candidate Starts for SCentae\_173:

(3, 126989), (4, 126992), (5, 127016), (Start: 13 @127166 has 2 MA's), (15, 127202), (Start: 17 @127211 has 1 MA's), (22, 127280), (28, 127334), (30, 127355), (36, 127406), (41, 127481), (42, 127484), (45, 127547), (48, 127595), (51, 127610), (57, 127673), (65, 127769), (67, 127784), (74, 127886), (75, 127895), (77, 127901), (80, 127982), (113, 128021), (116, 128057), (117, 128087), (128, 128168), (133, 128183), (135, 128237), (139, 128321), (141, 128330), (146, 128414), (147, 128417), (148, 128426), (150, 128456), (151, 128459), (155, 128558), (164, 128681), (170, 128744), (175, 128792), (181, 128867), (183, 128876), (206, 129095), (209, 129104), (219, 129215), (223, 129233), (226, 129257), (227, 129260), (232, 129299), (238, 129344),

Gene: SVoro\_248 Start: 145863, Stop: 148079, Start Num: 10

Candidate Starts for SVoro\_248:

(2, 145581), (Start: 10 @145863 has 182 MA's), (Start: 17 @145929 has 1 MA's), (19, 145971), (21, 145995), (23, 146013), (28, 146052), (36, 146124), (37, 146139), (40, 146196), (42, 146202), (43, 146229), (47, 146304), (49, 146316), (57, 146391), (58, 146394), (67, 146502), (72, 146586), (75, 146613), (80, 146700), (125, 146874), (132, 146898), (134, 146955), (139, 147042), (148, 147150), (152, 147210), (164, 147321), (166, 147333), (168, 147342), (170, 147384), (176, 147441), (192, 147588), (202, 147711), (204, 147738), (205, 147741), (206, 147744), (207, 147747), (214, 147804), (217, 147852), (227, 147912), (230, 147921), (241, 148032),

Gene: Salacia\_255 Start: 147430, Stop: 149646, Start Num: 10

Candidate Starts for Salacia\_255:

(2, 147148), (Start: 10 @147430 has 182 MA's), (Start: 17 @147496 has 1 MA's), (19, 147538), (21, 147562), (23, 147580), (28, 147619), (36, 147691), (37, 147706), (40, 147763), (42, 147769), (43, 147796), (47, 147871), (49, 147883), (57, 147958), (58, 147961), (67, 148069), (72, 148153), (75, 148180), (80, 148267), (125, 148441), (132, 148465), (134, 148522), (139, 148609), (148, 148717), (152, 148777), (164, 148888), (166, 148900), (168, 148909), (170, 148951), (176, 149008), (189, 149140), (192, 149155), (202, 149278), (204, 149305), (205, 149308), (206, 149311), (207, 149314), (214, 149371), (217, 149419), (227, 149479), (230, 149488), (241, 149599),

Gene: Sauce\_250 Start: 145289, Stop: 148312, Start Num: 10

Candidate Starts for Sauce\_250:

(2, 145007), (Start: 10 @145289 has 182 MA's), (Start: 17 @145355 has 1 MA's), (19, 145397), (21, 145421), (23, 145439), (28, 145478), (36, 145550), (37, 145565), (40, 145622), (42, 145628), (43, 145655), (47, 145730), (49, 145742), (57, 145817), (58, 145820), (67, 145928), (72, 146012), (75, 146039), (80, 146126), (82, 146156), (83, 146174), (86, 146198), (88, 146213), (97, 146504), (98, 146564), (100, 146612), (101, 146621), (103, 146693), (104, 146795), (105, 146840), (106, 146870), (108, 146933), (111, 146948), (125, 147107), (132, 147131), (134, 147188), (139, 147275), (148, 147383), (152, 147443), (164, 147554), (166, 147566), (168, 147575), (170, 147617), (176, 147674), (189, 147806), (192, 147821), (202, 147944), (204, 147971), (205, 147974), (206, 147977), (207, 147980), (214, 148037), (217, 148085), (227, 148145), (230, 148154), (241, 148265),

Gene: ScoobyDoobyDoo\_242 Start: 145108, Stop: 147399, Start Num: 10

Candidate Starts for ScoobyDoobyDoo\_242:

(Start: 10 @145108 has 182 MA's), (20, 145240), (27, 145297), (35, 145366), (36, 145372), (39, 145438), (42, 145450), (47, 145552), (49, 145564), (50, 145573), (57, 145639), (60, 145672), (65, 145735), (66, 145741), (68, 145756), (77, 145867), (78, 145900), (79, 145912), (81, 145957), (115, 146017), (116, 146023), (118, 146083), (119, 146089), (122, 146095), (128, 146143), (130, 146149), (132, 146152), (134, 146209), (137, 146254), (139, 146296), (146, 146389), (148, 146401), (162, 146632), (169, 146698), (170, 146707), (181, 146827), (186, 146854), (192, 146911), (193, 146947), (200, 146998), (205, 147052), (206, 147055), (219, 147172), (222, 147187), (229, 147223),

Gene: ScottMcG\_245 Start: 144490, Stop: 147513, Start Num: 10

Candidate Starts for ScottMcG\_245:

(2, 144208), (Start: 10 @144490 has 182 MA's), (Start: 17 @144556 has 1 MA's), (19, 144598), (21, 144622), (23, 144640), (28, 144679), (36, 144751), (37, 144766), (40, 144823), (42, 144829), (43, 144856), (47, 144931), (49, 144943), (57, 145018), (58, 145021), (67, 145129), (75, 145240), (80, 145327), (82, 145357), (83, 145375), (86, 145399), (88, 145414), (97, 145705), (98, 145765), (100, 145813), (101, 145822), (103, 145894), (104, 145996), (105, 146041), (106, 146071), (108, 146134), (111, 146149), (125, 146308), (132, 146332), (134, 146389), (139, 146476), (148, 146584), (152, 146644), (164, 146755), (166, 146767), (170, 146818), (176, 146875), (192, 147022), (202, 147145), (204, 147172), (205, 147175), (206, 147178), (207, 147181), (214, 147238), (217, 147286), (227, 147346), (230, 147355), (241, 147466),

Gene: Sebata\_253 Start: 146149, Stop: 148365, Start Num: 10

Candidate Starts for Sebata\_253:

(Start: 10 @146149 has 182 MA's), (Start: 17 @146215 has 1 MA's), (19, 146257), (21, 146281), (23, 146299), (28, 146338), (36, 146410), (37, 146425), (40, 146482), (42, 146488), (43, 146515), (47, 146590), (49, 146602), (57, 146677), (58, 146680), (67, 146788), (72, 146872), (75, 146899), (80, 146986), (125, 147160), (132, 147184), (134, 147241), (139, 147328), (148, 147436), (152, 147496), (164, 147607), (166, 147619), (170, 147670), (176, 147727), (192, 147874), (202, 147997), (204, 148024), (205, 148027), (206, 148030), (207, 148033), (214, 148090), (217, 148138), (227, 148198), (230, 148207), (241, 148318),

Gene: Settecandela\_2 Start: 1651, Stop: 4911, Start Num: 7

Candidate Starts for Settecandela\_2:

(Start: 7 @1651 has 2 MA's), (28, 1867), (34, 1930), (36, 1939), (39, 2005), (44, 2053), (46, 2116), (50, 2140), (56, 2203), (57, 2206), (59, 2245), (63, 2281), (64, 2299), (65, 2317), (67, 2332), (69, 2350), (73, 2422), (75, 2443), (76, 2446), (84, 2590), (87, 2617), (89, 2674), (90, 2698), (91, 2716), (92, 2770), (93, 2830), (94, 2851), (95, 2863), (96, 2890), (99, 3022), (106, 3283), (107, 3310), (109, 3349), (110, 3358), (120, 3517), (121, 3526), (124, 3559), (126, 3598), (127, 3616), (129, 3655), (131, 3661), (135, 3772), (138, 3835), (142, 3901), (145, 3955), (148, 3991), (153, 4102), (156, 4147), (160, 4171), (162, 4201), (168, 4234), (171, 4297), (172, 4300), (185, 4432), (190, 4492), (191, 4498), (195, 4552), (198, 4573), (200, 4588), (206, 4645), (207, 4648), (212, 4702), (225, 4807),

Gene: Shaqnato\_244 Start: 144698, Stop: 147721, Start Num: 10

Candidate Starts for Shaqnato\_244:

(2, 144416), (Start: 10 @144698 has 182 MA's), (Start: 17 @144764 has 1 MA's), (19, 144806), (21, 144830), (23, 144848), (28, 144887), (36, 144959), (37, 144974), (40, 145031), (42, 145037), (43, 145064), (47, 145139), (49, 145151), (57, 145226), (58, 145229), (67, 145337), (72, 145421), (75, 145448), (80, 145535), (82, 145565), (83, 145583), (86, 145607), (88, 145622), (97, 145913), (98, 145973), (100, 146021), (101, 146030), (103, 146102), (104, 146204), (105, 146249), (106, 146279), (108, 146342), (111, 146357), (125, 146516), (132, 146540), (134, 146597), (139, 146684), (148, 146792), (152, 146852), (164, 146963), (166, 146975), (168, 146984), (170, 147026), (176, 147083), (189, 147215), (192, 147230), (202, 147353), (204, 147380), (205, 147383), (206, 147386), (207,

147389), (214, 147446), (217, 147494), (227, 147554), (230, 147563), (241, 147674),

Gene: Shelob\_254 Start: 147424, Stop: 149640, Start Num: 10

Candidate Starts for Shelob\_254:

(2, 147142), (Start: 10 @147424 has 182 MA's), (Start: 17 @147490 has 1 MA's), (19, 147532), (21, 147556), (23, 147574), (28, 147613), (36, 147685), (37, 147700), (40, 147757), (42, 147763), (43, 147790), (47, 147865), (49, 147877), (57, 147952), (58, 147955), (67, 148063), (72, 148147), (75, 148174), (80, 148261), (125, 148435), (132, 148459), (134, 148516), (139, 148603), (148, 148711), (152, 148771), (164, 148882), (166, 148894), (168, 148903), (170, 148945), (176, 149002), (189, 149134), (192, 149149), (202, 149272), (204, 149299), (205, 149302), (206, 149305), (207, 149308), (214, 149365), (217, 149413), (227, 149473), (230, 149482), (241, 149593),

Gene: ShiaLabeouf\_251 Start: 145283, Stop: 147499, Start Num: 10

Candidate Starts for ShiaLabeouf\_251:

(2, 145001), (Start: 10 @145283 has 182 MA's), (Start: 17 @145349 has 1 MA's), (19, 145391), (21, 145415), (23, 145433), (28, 145472), (36, 145544), (37, 145559), (40, 145616), (42, 145622), (43, 145649), (47, 145724), (49, 145736), (57, 145811), (58, 145814), (67, 145922), (72, 146006), (75, 146033), (80, 146120), (125, 146294), (132, 146318), (134, 146375), (139, 146462), (148, 146570), (152, 146630), (164, 146741), (166, 146753), (168, 146762), (170, 146804), (176, 146861), (189, 146993), (192, 147008), (202, 147131), (204, 147158), (205, 147161), (206, 147164), (207, 147167), (214, 147224), (217, 147272), (227, 147332), (230, 147341), (241, 147452),

Gene: Shifa\_229 Start: 144757, Stop: 146973, Start Num: 10

Candidate Starts for Shifa\_229:

(Start: 10 @144757 has 182 MA's), (Start: 17 @144823 has 1 MA's), (19, 144865), (21, 144889), (23, 144907), (28, 144946), (36, 145018), (37, 145033), (40, 145090), (42, 145096), (43, 145123), (47, 145198), (49, 145210), (57, 145285), (58, 145288), (67, 145396), (72, 145480), (75, 145507), (80, 145594), (125, 145768), (132, 145792), (134, 145849), (139, 145936), (148, 146044), (152, 146104), (164, 146215), (166, 146227), (170, 146278), (176, 146335), (192, 146482), (202, 146605), (204, 146632), (205, 146635), (206, 146638), (207, 146641), (214, 146698), (217, 146746), (227, 146806), (230, 146815), (241, 146926),

Gene: Shnickers\_252 Start: 145347, Stop: 147563, Start Num: 10

Candidate Starts for Shnickers\_252:

(2, 145065), (Start: 10 @145347 has 182 MA's), (Start: 17 @145413 has 1 MA's), (19, 145455), (21, 145479), (23, 145497), (28, 145536), (36, 145608), (37, 145623), (40, 145680), (42, 145686), (43, 145713), (47, 145788), (49, 145800), (57, 145875), (58, 145878), (67, 145986), (72, 146070), (75, 146097), (80, 146184), (125, 146358), (132, 146382), (134, 146439), (139, 146526), (148, 146634), (152, 146694), (164, 146805), (166, 146817), (168, 146826), (170, 146868), (176, 146925), (189, 147057), (192, 147072), (202, 147195), (204, 147222), (205, 147225), (206, 147228), (207, 147231), (214, 147288), (217, 147336), (227, 147396), (230, 147405), (241, 147516),

Gene: Shrimp\_256 Start: 147041, Stop: 149257, Start Num: 10

Candidate Starts for Shrimp\_256:

(2, 146759), (Start: 10 @147041 has 182 MA's), (Start: 17 @147107 has 1 MA's), (19, 147149), (21, 147173), (23, 147191), (28, 147230), (36, 147302), (37, 147317), (40, 147374), (42, 147380), (43, 147407), (47, 147482), (49, 147494), (57, 147569), (58, 147572), (67, 147680), (72, 147764), (75, 147791), (80, 147878), (125, 148052), (132, 148076), (134, 148133), (139, 148220), (148, 148328), (152, 148388), (164, 148499), (166, 148511), (170, 148562), (176, 148619), (192, 148766), (202, 148889), (204, 148916), (205, 148919), (206, 148922), (207, 148925), (214, 148982), (217, 149030), (227, 149090), (230, 149099), (241, 149210),

Gene: SilverDipper\_258 Start: 146083, Stop: 149106, Start Num: 10

Candidate Starts for SilverDipper\_258:

(2, 145801), (Start: 10 @146083 has 182 MA's), (Start: 17 @146149 has 1 MA's), (19, 146191), (21, 146215), (23, 146233), (28, 146272), (36, 146344), (37, 146359), (40, 146416), (42, 146422), (43, 146449), (47, 146524), (49, 146536), (57, 146611), (58, 146614), (67, 146722), (75, 146833), (80, 146920), (82, 146950), (83, 146968), (86, 146992), (88, 147007), (97, 147298), (98, 147358), (100, 147406), (101, 147415), (103, 147487), (104, 147589), (105, 147634), (106, 147664), (108, 147727), (111, 147742), (125, 147901), (132, 147925), (134, 147982), (139, 148069), (148, 148177), (164, 148348), (166, 148360), (170, 148411), (176, 148468), (192, 148615), (202, 148738), (204, 148765), (205, 148768), (206, 148771), (207, 148774), (214, 148831), (217, 148879), (227, 148939), (230, 148948), (241, 149059),

Gene: Skog\_6 Start: 3539, Stop: 5740, Start Num: 12

Candidate Starts for Skog\_6:

(Start: 12 @3539 has 1 MA's), (15, 3575), (Start: 17 @3584 has 1 MA's), (22, 3653), (28, 3707), (30, 3728), (31, 3746), (32, 3764), (41, 3854), (42, 3857), (45, 3920), (48, 3968), (51, 3983), (57, 4046), (65, 4142), (67, 4157), (74, 4259), (75, 4268), (77, 4274), (80, 4355), (113, 4394), (115, 4424), (116, 4430), (117, 4460), (128, 4541), (133, 4556), (134, 4607), (135, 4610), (137, 4652), (139, 4694), (141, 4703), (146, 4787), (147, 4790), (148, 4799), (150, 4829), (155, 4931), (164, 5054), (170, 5117), (181, 5240), (206, 5468), (219, 5588), (223, 5606), (226, 5630), (227, 5633), (232, 5672), (235, 5702), (238, 5714),

Gene: SmallFry\_254 Start: 145441, Stop: 148464, Start Num: 10

Candidate Starts for SmallFry\_254:

(2, 145159), (Start: 10 @145441 has 182 MA's), (Start: 17 @145507 has 1 MA's), (19, 145549), (21, 145573), (23, 145591), (28, 145630), (36, 145702), (37, 145717), (40, 145774), (42, 145780), (43, 145807), (47, 145882), (49, 145894), (57, 145969), (58, 145972), (67, 146080), (72, 146164), (75, 146191), (80, 146278), (82, 146308), (83, 146326), (86, 146350), (88, 146365), (97, 146656), (98, 146716), (100, 146764), (101, 146773), (103, 146845), (104, 146947), (105, 146992), (106, 147022), (108, 147085), (111, 147100), (125, 147259), (132, 147283), (134, 147340), (139, 147427), (148, 147535), (152, 147595), (164, 147706), (166, 147718), (168, 147727), (170, 147769), (176, 147826), (189, 147958), (192, 147973), (202, 148096), (204, 148123), (205, 148126), (206, 148129), (207, 148132), (214, 148189), (217, 148237), (227, 148297), (230, 148306), (241, 148417),

Gene: Spec\_247 Start: 145453, Stop: 148476, Start Num: 10

Candidate Starts for Spec\_247:

(2, 145171), (Start: 10 @145453 has 182 MA's), (Start: 17 @145519 has 1 MA's), (19, 145561), (21, 145585), (23, 145603), (28, 145642), (36, 145714), (37, 145729), (40, 145786), (42, 145792), (43, 145819), (47, 145894), (49, 145906), (57, 145981), (58, 145984), (67, 146092), (72, 146176), (75, 146203), (80, 146290), (82, 146320), (83, 146338), (86, 146362), (88, 146377), (97, 146668), (98, 146728), (100, 146776), (101, 146785), (103, 146857), (104, 146959), (105, 147004), (106, 147034), (108, 147097), (111, 147112), (125, 147271), (132, 147295), (134, 147352), (139, 147439), (148, 147547), (152, 147607), (164, 147718), (166, 147730), (168, 147739), (170, 147781), (176, 147838), (189, 147970), (192, 147985), (202, 148108), (204, 148135), (205, 148138), (206, 148141), (207, 148144), (214, 148201), (217, 148249), (227, 148309), (230, 148318), (241, 148429),

Gene: Specks\_258 Start: 146381, Stop: 149404, Start Num: 10

Candidate Starts for Specks\_258:

(2, 146099), (Start: 10 @146381 has 182 MA's), (Start: 17 @146447 has 1 MA's), (19, 146489), (21, 146513), (23, 146531), (28, 146570), (36, 146642), (37, 146657), (40, 146714), (42, 146720), (43, 146747), (47, 146822), (49, 146834), (57, 146909), (58, 146912), (67, 147020), (72, 147104), (75, 147131), (80, 147218), (82, 147248), (83, 147266), (86, 147290), (88, 147305), (97, 147596), (98, 147656), (100, 147704), (101, 147713), (102, 147737), (104, 147887), (105, 147932), (106, 147962), (108, 148025), (111, 148040), (125, 148199), (132, 148223), (134, 148280), (139, 148367), (148, 148475), (152, 148535), (164, 148646), (166, 148658), (168, 148667), (170, 148709), (176, 148766),

(189, 148898), (192, 148913), (202, 149036), (204, 149063), (205, 149066), (206, 149069), (207, 149072), (214, 149129), (217, 149177), (227, 149237), (230, 149246), (241, 149357),

Gene: Sprinklers\_251 Start: 145149, Stop: 148172, Start Num: 10

Candidate Starts for Sprinklers\_251:

(2, 144867), (Start: 10 @145149 has 182 MA's), (Start: 17 @145215 has 1 MA's), (19, 145257), (21, 145281), (23, 145299), (28, 145338), (36, 145410), (37, 145425), (40, 145482), (42, 145488), (43, 145515), (47, 145590), (49, 145602), (57, 145677), (58, 145680), (67, 145788), (72, 145872), (75, 145899), (80, 145986), (82, 146016), (83, 146034), (86, 146058), (88, 146073), (97, 146364), (98, 146424), (100, 146472), (101, 146481), (103, 146553), (104, 146655), (105, 146700), (106, 146730), (108, 146793), (111, 146808), (125, 146967), (132, 146991), (134, 147048), (139, 147135), (148, 147243), (152, 147303), (164, 147414), (166, 147426), (168, 147435), (170, 147477), (176, 147534), (189, 147666), (192, 147681), (202, 147804), (204, 147831), (205, 147834), (206, 147837), (207, 147840), (214, 147897), (217, 147945), (227, 148005), (230, 148014), (241, 148125),

Gene: Spud\_245 Start: 144898, Stop: 147921, Start Num: 10

Candidate Starts for Spud\_245:

(2, 144616), (Start: 10 @144898 has 182 MA's), (Start: 17 @144964 has 1 MA's), (19, 145006), (21, 145030), (23, 145048), (28, 145087), (36, 145159), (37, 145174), (40, 145231), (42, 145237), (43, 145264), (47, 145339), (49, 145351), (57, 145426), (58, 145429), (67, 145537), (72, 145621), (75, 145648), (80, 145735), (82, 145765), (83, 145783), (86, 145807), (88, 145822), (97, 146113), (98, 146173), (100, 146221), (101, 146230), (103, 146302), (104, 146404), (105, 146449), (106, 146479), (108, 146542), (111, 146557), (125, 146716), (132, 146740), (134, 146797), (139, 146884), (148, 146992), (152, 147052), (164, 147163), (166, 147175), (168, 147184), (170, 147226), (176, 147283), (189, 147415), (192, 147430), (202, 147553), (204, 147580), (205, 147583), (206, 147586), (207, 147589), (214, 147646), (217, 147694), (227, 147754), (230, 147763), (241, 147874),

Gene: SrishMeg2525\_251 Start: 146536, Stop: 148752, Start Num: 10

Candidate Starts for SrishMeg2525\_251:

(2, 146254), (Start: 10 @146536 has 182 MA's), (Start: 17 @146602 has 1 MA's), (19, 146644), (21, 146668), (23, 146686), (28, 146725), (36, 146797), (37, 146812), (40, 146869), (42, 146875), (43, 146902), (47, 146977), (49, 146989), (57, 147064), (58, 147067), (67, 147175), (72, 147259), (75, 147286), (80, 147373), (125, 147547), (132, 147571), (134, 147628), (139, 147715), (148, 147823), (152, 147883), (164, 147994), (166, 148006), (168, 148015), (170, 148057), (176, 148114), (189, 148246), (192, 148261), (202, 148384), (204, 148411), (205, 148414), (206, 148417), (207, 148420), (214, 148477), (217, 148525), (227, 148585), (230, 148594), (241, 148705),

Gene: StephanieG\_247 Start: 146084, Stop: 149107, Start Num: 10

Candidate Starts for StephanieG\_247:

(2, 145802), (Start: 10 @146084 has 182 MA's), (Start: 17 @146150 has 1 MA's), (19, 146192), (21, 146216), (23, 146234), (28, 146273), (36, 146345), (37, 146360), (40, 146417), (42, 146423), (43, 146450), (47, 146525), (49, 146537), (57, 146612), (58, 146615), (67, 146723), (72, 146807), (75, 146834), (80, 146921), (82, 146951), (83, 146969), (86, 146993), (88, 147008), (97, 147299), (98, 147359), (100, 147407), (101, 147416), (102, 147440), (104, 147590), (105, 147635), (106, 147665), (108, 147728), (111, 147743), (125, 147902), (132, 147926), (134, 147983), (139, 148070), (148, 148178), (152, 148238), (164, 148349), (166, 148361), (168, 148370), (170, 148412), (176, 148469), (189, 148601), (192, 148616), (202, 148739), (204, 148766), (205, 148769), (206, 148772), (207, 148775), (214, 148832), (217, 148880), (227, 148940), (230, 148949), (241, 149060),

Gene: Stormageddon\_1 Start: 1, Stop: 2160, Start Num: 8

Candidate Starts for Stormageddon\_1:

(Start: 8 @1 has 2 MA's), (14, 58), (16, 76), (18, 109), (25, 172), (28, 202), (33, 262), (36, 274), (45, 415), (46, 451), (50, 475), (65, 637), (71, 694), (75, 763), (112, 880), (116, 925), (128, 1045), (132,

1054), (139, 1153), (140, 1156), (144, 1219), (148, 1258), (149, 1270), (170, 1504), (175, 1552), (177, 1591), (181, 1627), (182, 1633), (188, 1675), (195, 1789), (210, 1900), (211, 1936),

Gene: Stubby\_236 Start: 142869, Stop: 145892, Start Num: 10

Candidate Starts for Stubby\_236:

(Start: 10 @142869 has 182 MA's), (Start: 17 @142935 has 1 MA's), (19, 142977), (21, 143001), (23, 143019), (28, 143058), (36, 143130), (37, 143145), (40, 143202), (42, 143208), (43, 143235), (47, 143310), (49, 143322), (57, 143397), (58, 143400), (67, 143508), (75, 143619), (80, 143706), (82, 143736), (83, 143754), (86, 143778), (88, 143793), (97, 144084), (98, 144144), (100, 144192), (101, 144201), (102, 144225), (104, 144375), (105, 144420), (106, 144450), (108, 144513), (111, 144528), (125, 144687), (132, 144711), (134, 144768), (139, 144855), (148, 144963), (152, 145023), (164, 145134), (166, 145146), (168, 145155), (170, 145197), (176, 145254), (192, 145401), (202, 145524), (204, 145551), (205, 145554), (206, 145557), (207, 145560), (214, 145617), (217, 145665), (227, 145725), (230, 145734), (241, 145845),

Gene: StubbySaigey\_260 Start: 146066, Stop: 149089, Start Num: 10

Candidate Starts for StubbySaigey\_260:

(2, 145784), (Start: 10 @146066 has 182 MA's), (Start: 17 @146132 has 1 MA's), (19, 146174), (21, 146198), (23, 146216), (28, 146255), (36, 146327), (37, 146342), (40, 146399), (42, 146405), (43, 146432), (47, 146507), (49, 146519), (57, 146594), (58, 146597), (67, 146705), (75, 146816), (80, 146903), (82, 146933), (83, 146951), (86, 146975), (88, 146990), (97, 147281), (98, 147341), (100, 147389), (101, 147398), (103, 147470), (104, 147572), (105, 147617), (106, 147647), (108, 147710), (111, 147725), (125, 147884), (132, 147908), (134, 147965), (139, 148052), (148, 148160), (152, 148220), (164, 148331), (166, 148343), (170, 148394), (176, 148451), (192, 148598), (202, 148721), (204, 148748), (205, 148751), (206, 148754), (207, 148757), (214, 148814), (217, 148862), (227, 148922), (230, 148931), (241, 149042),

Gene: Substance289\_249 Start: 145489, Stop: 148512, Start Num: 10

Candidate Starts for Substance289\_249:

(2, 145207), (Start: 10 @145489 has 182 MA's), (Start: 17 @145555 has 1 MA's), (19, 145597), (21, 145621), (23, 145639), (28, 145678), (36, 145750), (37, 145765), (40, 145822), (42, 145828), (43, 145855), (47, 145930), (49, 145942), (57, 146017), (58, 146020), (67, 146128), (75, 146239), (80, 146326), (82, 146356), (83, 146374), (86, 146398), (88, 146413), (97, 146704), (98, 146764), (100, 146812), (101, 146821), (103, 146893), (104, 146995), (105, 147040), (106, 147070), (108, 147133), (111, 147148), (125, 147307), (132, 147331), (134, 147388), (139, 147475), (148, 147583), (164, 147754), (166, 147766), (170, 147817), (176, 147874), (192, 148021), (202, 148144), (204, 148171), (205, 148174), (206, 148177), (207, 148180), (214, 148237), (217, 148285), (227, 148345), (230, 148354), (241, 148465),

Gene: Tainan\_253 Start: 145004, Stop: 148027, Start Num: 10

Candidate Starts for Tainan\_253:

(2, 144722), (Start: 10 @145004 has 182 MA's), (Start: 17 @145070 has 1 MA's), (19, 145112), (21, 145136), (23, 145154), (28, 145193), (36, 145265), (37, 145280), (40, 145337), (42, 145343), (43, 145370), (47, 145445), (49, 145457), (57, 145532), (58, 145535), (67, 145643), (72, 145727), (75, 145754), (80, 145841), (82, 145871), (83, 145889), (86, 145913), (88, 145928), (97, 146219), (98, 146279), (100, 146327), (101, 146336), (102, 146360), (104, 146510), (105, 146555), (106, 146585), (108, 146648), (111, 146663), (125, 146822), (132, 146846), (134, 146903), (139, 146990), (148, 147098), (152, 147158), (164, 147269), (166, 147281), (168, 147290), (170, 147332), (176, 147389), (189, 147521), (192, 147536), (202, 147659), (204, 147686), (205, 147689), (206, 147692), (207, 147695), (214, 147752), (217, 147800), (227, 147860), (230, 147869), (241, 147980),

Gene: Teardrop\_252 Start: 145393, Stop: 148416, Start Num: 10

Candidate Starts for Teardrop\_252:

(2, 145111), (Start: 10 @145393 has 182 MA's), (Start: 17 @145459 has 1 MA's), (19, 145501), (21, 145525), (23, 145543), (28, 145582), (36, 145654), (37, 145669), (40, 145726), (42, 145732), (43, 145759), (47, 145834), (49, 145846), (57, 145921), (58, 145924), (67, 146032), (72, 146116), (75, 146143), (80, 146230), (82, 146260), (83, 146278), (86, 146302), (88, 146317), (97, 146608), (98, 146668), (100, 146716), (101, 146725), (102, 146749), (104, 146899), (105, 146944), (106, 146974), (108, 147037), (111, 147052), (125, 147211), (132, 147235), (134, 147292), (139, 147379), (148, 147487), (152, 147547), (164, 147658), (166, 147670), (168, 147679), (170, 147721), (176, 147778), (190, 147916), (192, 147925), (202, 148048), (204, 148075), (205, 148078), (206, 148081), (207, 148084), (214, 148141), (217, 148189), (227, 148249), (230, 148258), (241, 148369),

Gene: TinyTim\_252 Start: 145360, Stop: 147576, Start Num: 10

Candidate Starts for TinyTim\_252:

(2, 145078), (Start: 10 @145360 has 182 MA's), (Start: 17 @145426 has 1 MA's), (19, 145468), (21, 145492), (23, 145510), (28, 145549), (36, 145621), (37, 145636), (40, 145693), (42, 145699), (43, 145726), (47, 145801), (49, 145813), (57, 145888), (58, 145891), (67, 145999), (72, 146083), (75, 146110), (80, 146197), (125, 146371), (132, 146395), (134, 146452), (139, 146539), (148, 146647), (152, 146707), (164, 146818), (166, 146830), (168, 146839), (170, 146881), (176, 146938), (189, 147070), (192, 147085), (202, 147208), (204, 147235), (205, 147238), (206, 147241), (207, 147244), (214, 147301), (217, 147349), (227, 147409), (230, 147418), (241, 147529),

Gene: Tonenili\_275 Start: 150692, Stop: 152905, Start Num: 11

Candidate Starts for Tonenili\_275:

(Start: 11 @150692 has 1 MA's), (Start: 17 @150749 has 1 MA's), (23, 150833), (30, 150893), (36, 150944), (37, 150959), (39, 151010), (40, 151016), (41, 151019), (47, 151124), (49, 151136), (52, 151151), (53, 151154), (57, 151211), (58, 151214), (72, 151406), (75, 151433), (80, 151520), (132, 151721), (134, 151778), (137, 151823), (148, 151973), (151, 152006), (166, 152156), (168, 152165), (170, 152207), (172, 152213), (176, 152264), (192, 152411), (202, 152534), (204, 152561), (205, 152564), (206, 152567), (207, 152570), (214, 152627), (215, 152630), (216, 152648), (227, 152735), (230, 152744), (231, 152768), (236, 152816), (240, 152843),

Gene: Tortoise16\_251 Start: 145373, Stop: 147589, Start Num: 10

Candidate Starts for Tortoise16\_251:

(2, 145091), (Start: 10 @145373 has 182 MA's), (Start: 17 @145439 has 1 MA's), (19, 145481), (21, 145505), (23, 145523), (28, 145562), (36, 145634), (37, 145649), (40, 145706), (42, 145712), (43, 145739), (47, 145814), (49, 145826), (57, 145901), (58, 145904), (67, 146012), (72, 146096), (75, 146123), (80, 146210), (125, 146384), (132, 146408), (134, 146465), (139, 146552), (148, 146660), (152, 146720), (164, 146831), (166, 146843), (168, 146852), (170, 146894), (176, 146951), (189, 147083), (192, 147098), (202, 147221), (204, 147248), (205, 147251), (206, 147254), (207, 147257), (214, 147314), (217, 147362), (227, 147422), (230, 147431), (241, 147542),

Gene: Trinitium\_250 Start: 144114, Stop: 147137, Start Num: 10

Candidate Starts for Trinitium\_250:

(2, 143832), (Start: 10 @144114 has 182 MA's), (Start: 17 @144180 has 1 MA's), (19, 144222), (21, 144246), (23, 144264), (28, 144303), (36, 144375), (37, 144390), (40, 144447), (42, 144453), (43, 144480), (47, 144555), (49, 144567), (57, 144642), (58, 144645), (67, 144753), (75, 144864), (80, 144951), (82, 144981), (83, 144999), (86, 145023), (88, 145038), (97, 145329), (98, 145389), (100, 145437), (101, 145446), (103, 145518), (104, 145620), (105, 145665), (106, 145695), (108, 145758), (111, 145773), (125, 145932), (132, 145956), (134, 146013), (139, 146100), (148, 146208), (152, 146268), (164, 146379), (166, 146391), (170, 146442), (176, 146499), (192, 146646), (202, 146769), (204, 146796), (205, 146799), (206, 146802), (207, 146805), (214, 146862), (217, 146910), (227, 146970), (230, 146979), (241, 147090),

Gene: Turret\_244 Start: 143247, Stop: 146270, Start Num: 10

Candidate Starts for Turret\_244:

(2, 142965), (Start: 10 @143247 has 182 MA's), (Start: 17 @143313 has 1 MA's), (19, 143355), (21, 143379), (23, 143397), (28, 143436), (36, 143508), (37, 143523), (40, 143580), (42, 143586), (43, 143613), (47, 143688), (49, 143700), (57, 143775), (58, 143778), (67, 143886), (75, 143997), (80, 144084), (82, 144114), (83, 144132), (86, 144156), (88, 144171), (97, 144462), (98, 144522), (100, 144570), (101, 144579), (103, 144651), (104, 144753), (105, 144798), (106, 144828), (108, 144891), (111, 144906), (125, 145065), (132, 145089), (134, 145146), (139, 145233), (148, 145341), (152, 145401), (164, 145512), (166, 145524), (170, 145575), (176, 145632), (192, 145779), (202, 145902), (204, 145929), (205, 145932), (206, 145935), (207, 145938), (214, 145995), (217, 146043), (227, 146103), (230, 146112), (241, 146223),

Gene: Tyke\_250 Start: 147496, Stop: 149712, Start Num: 10

Candidate Starts for Tyke\_250:

(2, 147214), (Start: 10 @147496 has 182 MA's), (Start: 17 @147562 has 1 MA's), (19, 147604), (21, 147628), (23, 147646), (28, 147685), (36, 147757), (37, 147772), (40, 147829), (42, 147835), (43, 147862), (47, 147937), (49, 147949), (57, 148024), (58, 148027), (67, 148135), (72, 148219), (75, 148246), (80, 148333), (125, 148507), (132, 148531), (134, 148588), (139, 148675), (148, 148783), (152, 148843), (164, 148954), (166, 148966), (168, 148975), (170, 149017), (176, 149074), (189, 149206), (192, 149221), (202, 149344), (204, 149371), (205, 149374), (206, 149377), (207, 149380), (214, 149437), (217, 149485), (227, 149545), (230, 149554), (241, 149665),

Gene: ValleyTerrace\_254 Start: 144824, Stop: 147847, Start Num: 10

Candidate Starts for ValleyTerrace\_254:

(2, 144542), (Start: 10 @144824 has 182 MA's), (Start: 17 @144890 has 1 MA's), (19, 144932), (21, 144956), (23, 144974), (28, 145013), (36, 145085), (37, 145100), (40, 145157), (42, 145163), (43, 145190), (47, 145265), (49, 145277), (57, 145352), (58, 145355), (67, 145463), (75, 145574), (80, 145661), (82, 145691), (83, 145709), (86, 145733), (88, 145748), (97, 146039), (98, 146099), (100, 146147), (101, 146156), (103, 146228), (104, 146330), (105, 146375), (106, 146405), (108, 146468), (111, 146483), (125, 146642), (132, 146666), (134, 146723), (139, 146810), (148, 146918), (164, 147089), (166, 147101), (170, 147152), (176, 147209), (192, 147356), (202, 147479), (204, 147506), (205, 147509), (206, 147512), (207, 147515), (214, 147572), (217, 147620), (227, 147680), (230, 147689), (241, 147800),

Gene: Vortrix\_272 Start: 150007, Stop: 152220, Start Num: 11

Candidate Starts for Vortrix\_272:

(Start: 11 @150007 has 1 MA's), (Start: 17 @150064 has 1 MA's), (23, 150148), (30, 150208), (36, 150259), (37, 150274), (39, 150325), (40, 150331), (41, 150334), (47, 150439), (49, 150451), (52, 150466), (53, 150469), (57, 150526), (58, 150529), (72, 150721), (75, 150748), (80, 150835), (132, 151036), (134, 151093), (137, 151138), (148, 151288), (151, 151321), (166, 151471), (168, 151480), (170, 151522), (172, 151528), (173, 151540), (176, 151579), (192, 151726), (202, 151849), (204, 151876), (205, 151879), (206, 151882), (207, 151885), (214, 151942), (215, 151945), (216, 151963), (227, 152050), (230, 152059), (231, 152083), (236, 152131), (240, 152158),

Gene: Wally\_251 Start: 144808, Stop: 147831, Start Num: 10

Candidate Starts for Wally\_251:

(2, 144526), (Start: 10 @144808 has 182 MA's), (Start: 17 @144874 has 1 MA's), (19, 144916), (21, 144940), (23, 144958), (28, 144997), (36, 145069), (37, 145084), (40, 145141), (42, 145147), (43, 145174), (47, 145249), (49, 145261), (57, 145336), (58, 145339), (67, 145447), (72, 145531), (75, 145558), (80, 145645), (82, 145675), (83, 145693), (86, 145717), (88, 145732), (97, 146023), (98, 146083), (100, 146131), (101, 146140), (103, 146212), (104, 146314), (105, 146359), (106, 146389), (108, 146452), (111, 146467), (125, 146626), (132, 146650), (134, 146707), (139, 146794), (148, 146902), (152, 146962), (164, 147073), (166, 147085), (170, 147136), (176, 147193), (192, 147340), (202, 147463), (204, 147490), (205, 147493), (206, 147496), (207, 147499), (214, 147556), (217,

147604), (227, 147664), (230, 147673), (241, 147784),

Gene: Willis\_254 Start: 145747, Stop: 148770, Start Num: 10

Candidate Starts for Willis\_254:

(2, 145465), (Start: 10 @145747 has 182 MA's), (Start: 17 @145813 has 1 MA's), (19, 145855), (21, 145879), (23, 145897), (28, 145936), (36, 146008), (37, 146023), (40, 146080), (42, 146086), (43, 146113), (47, 146188), (49, 146200), (57, 146275), (58, 146278), (67, 146386), (75, 146497), (80, 146584), (82, 146614), (83, 146632), (86, 146656), (88, 146671), (97, 146962), (98, 147022), (100, 147070), (101, 147079), (103, 147151), (104, 147253), (105, 147298), (106, 147328), (108, 147391), (111, 147406), (125, 147565), (132, 147589), (134, 147646), (139, 147733), (148, 147841), (164, 148012), (166, 148024), (170, 148075), (176, 148132), (192, 148279), (202, 148402), (204, 148429), (205, 148432), (206, 148435), (207, 148438), (214, 148495), (217, 148543), (227, 148603), (230, 148612), (241, 148723),

Gene: Yassified\_249 Start: 144943, Stop: 147966, Start Num: 10

Candidate Starts for Yassified\_249:

(Start: 10 @144943 has 182 MA's), (Start: 17 @145009 has 1 MA's), (19, 145051), (21, 145075), (23, 145093), (28, 145132), (36, 145204), (37, 145219), (40, 145276), (42, 145282), (43, 145309), (47, 145384), (49, 145396), (57, 145471), (58, 145474), (67, 145582), (72, 145666), (75, 145693), (80, 145780), (82, 145810), (83, 145828), (86, 145852), (88, 145867), (97, 146158), (98, 146218), (100, 146266), (101, 146275), (102, 146299), (104, 146449), (105, 146494), (106, 146524), (108, 146587), (111, 146602), (125, 146761), (132, 146785), (134, 146842), (139, 146929), (148, 147037), (152, 147097), (164, 147208), (166, 147220), (168, 147229), (170, 147271), (176, 147328), (189, 147460), (192, 147475), (202, 147598), (204, 147625), (205, 147628), (206, 147631), (207, 147634), (214, 147691), (217, 147739), (227, 147799), (230, 147808), (241, 147919),

Gene: YemiJoy2021\_254 Start: 146478, Stop: 148694, Start Num: 10

Candidate Starts for YemiJoy2021\_254:

(2, 146196), (Start: 10 @146478 has 182 MA's), (Start: 17 @146544 has 1 MA's), (19, 146586), (21, 146610), (23, 146628), (28, 146667), (36, 146739), (37, 146754), (40, 146811), (42, 146817), (43, 146844), (47, 146919), (49, 146931), (57, 147006), (58, 147009), (67, 147117), (72, 147201), (75, 147228), (80, 147315), (125, 147489), (132, 147513), (134, 147570), (139, 147657), (148, 147765), (152, 147825), (164, 147936), (166, 147948), (168, 147957), (170, 147999), (176, 148056), (189, 148188), (192, 148203), (202, 148326), (204, 148353), (205, 148356), (206, 148359), (207, 148362), (214, 148419), (217, 148467), (227, 148527), (230, 148536), (241, 148647),

Gene: YoungMoneyMata\_253 Start: 145939, Stop: 148962, Start Num: 10

Candidate Starts for YoungMoneyMata\_253:

(2, 145657), (Start: 10 @145939 has 182 MA's), (Start: 17 @146005 has 1 MA's), (19, 146047), (21, 146071), (23, 146089), (28, 146128), (36, 146200), (37, 146215), (40, 146272), (42, 146278), (43, 146305), (47, 146380), (49, 146392), (57, 146467), (58, 146470), (67, 146578), (75, 146689), (80, 146776), (82, 146806), (83, 146824), (86, 146848), (88, 146863), (97, 147154), (98, 147214), (100, 147262), (101, 147271), (103, 147343), (104, 147445), (105, 147490), (106, 147520), (108, 147583), (111, 147598), (125, 147757), (132, 147781), (134, 147838), (139, 147925), (148, 148033), (164, 148204), (166, 148216), (170, 148267), (176, 148324), (192, 148471), (202, 148594), (204, 148621), (205, 148624), (206, 148627), (207, 148630), (214, 148687), (217, 148735), (227, 148795), (230, 148804), (241, 148915),

Gene: Yucca\_254 Start: 146919, Stop: 149135, Start Num: 10

Candidate Starts for Yucca\_254:

(2, 146637), (Start: 10 @146919 has 182 MA's), (Start: 17 @146985 has 1 MA's), (19, 147027), (21, 147051), (23, 147069), (28, 147108), (36, 147180), (37, 147195), (40, 147252), (42, 147258), (43, 147285), (47, 147360), (49, 147372), (57, 147447), (58, 147450), (67, 147558), (72, 147642), (75,

147669), (80, 147756), (125, 147930), (132, 147954), (134, 148011), (139, 148098), (148, 148206), (152, 148266), (164, 148377), (166, 148389), (168, 148398), (170, 148440), (176, 148497), (189, 148629), (192, 148644), (202, 148767), (204, 148794), (205, 148797), (206, 148800), (207, 148803), (214, 148860), (217, 148908), (227, 148968), (230, 148977), (241, 149088),

Gene: Zalkecks\_252 Start: 145576, Stop: 147792, Start Num: 10

Candidate Starts for Zalkecks\_252:

(2, 145294), (Start: 10 @145576 has 182 MA's), (Start: 17 @145642 has 1 MA's), (19, 145684), (21, 145708), (23, 145726), (28, 145765), (36, 145837), (37, 145852), (40, 145909), (42, 145915), (43, 145942), (47, 146017), (49, 146029), (57, 146104), (58, 146107), (67, 146215), (72, 146299), (75, 146326), (80, 146413), (125, 146587), (132, 146611), (134, 146668), (139, 146755), (148, 146863), (152, 146923), (164, 147034), (166, 147046), (168, 147055), (170, 147097), (176, 147154), (189, 147286), (192, 147301), (202, 147424), (204, 147451), (205, 147454), (206, 147457), (207, 147460), (214, 147517), (217, 147565), (227, 147625), (230, 147634), (241, 147745),

Gene: Zeenon\_254 Start: 146110, Stop: 148326, Start Num: 10

Candidate Starts for Zeenon\_254:

(2, 145828), (Start: 10 @146110 has 182 MA's), (Start: 17 @146176 has 1 MA's), (19, 146218), (21, 146242), (23, 146260), (28, 146299), (36, 146371), (37, 146386), (40, 146443), (42, 146449), (43, 146476), (47, 146551), (49, 146563), (57, 146638), (58, 146641), (67, 146749), (72, 146833), (75, 146860), (80, 146947), (125, 147121), (132, 147145), (134, 147202), (139, 147289), (148, 147397), (152, 147457), (164, 147568), (166, 147580), (168, 147589), (170, 147631), (176, 147688), (189, 147820), (192, 147835), (202, 147958), (204, 147985), (205, 147988), (206, 147991), (207, 147994), (214, 148051), (217, 148099), (227, 148159), (230, 148168), (241, 148279),

Gene: ZygoTaiga\_250 Start: 147216, Stop: 150239, Start Num: 10

Candidate Starts for ZygoTaiga\_250:

(2, 146934), (Start: 10 @147216 has 182 MA's), (Start: 17 @147282 has 1 MA's), (19, 147324), (21, 147348), (23, 147366), (28, 147405), (36, 147477), (37, 147492), (40, 147549), (42, 147555), (43, 147582), (47, 147657), (49, 147669), (57, 147744), (58, 147747), (67, 147855), (72, 147939), (75, 147966), (80, 148053), (82, 148083), (83, 148101), (86, 148125), (88, 148140), (97, 148431), (98, 148491), (100, 148539), (101, 148548), (102, 148572), (104, 148722), (105, 148767), (106, 148797), (108, 148860), (111, 148875), (125, 149034), (132, 149058), (134, 149115), (139, 149202), (148, 149310), (152, 149370), (164, 149481), (166, 149493), (168, 149502), (170, 149544), (176, 149601), (189, 149733), (192, 149748), (202, 149871), (204, 149898), (205, 149901), (206, 149904), (207, 149907), (214, 149964), (217, 150012), (227, 150072), (230, 150081), (241, 150192),