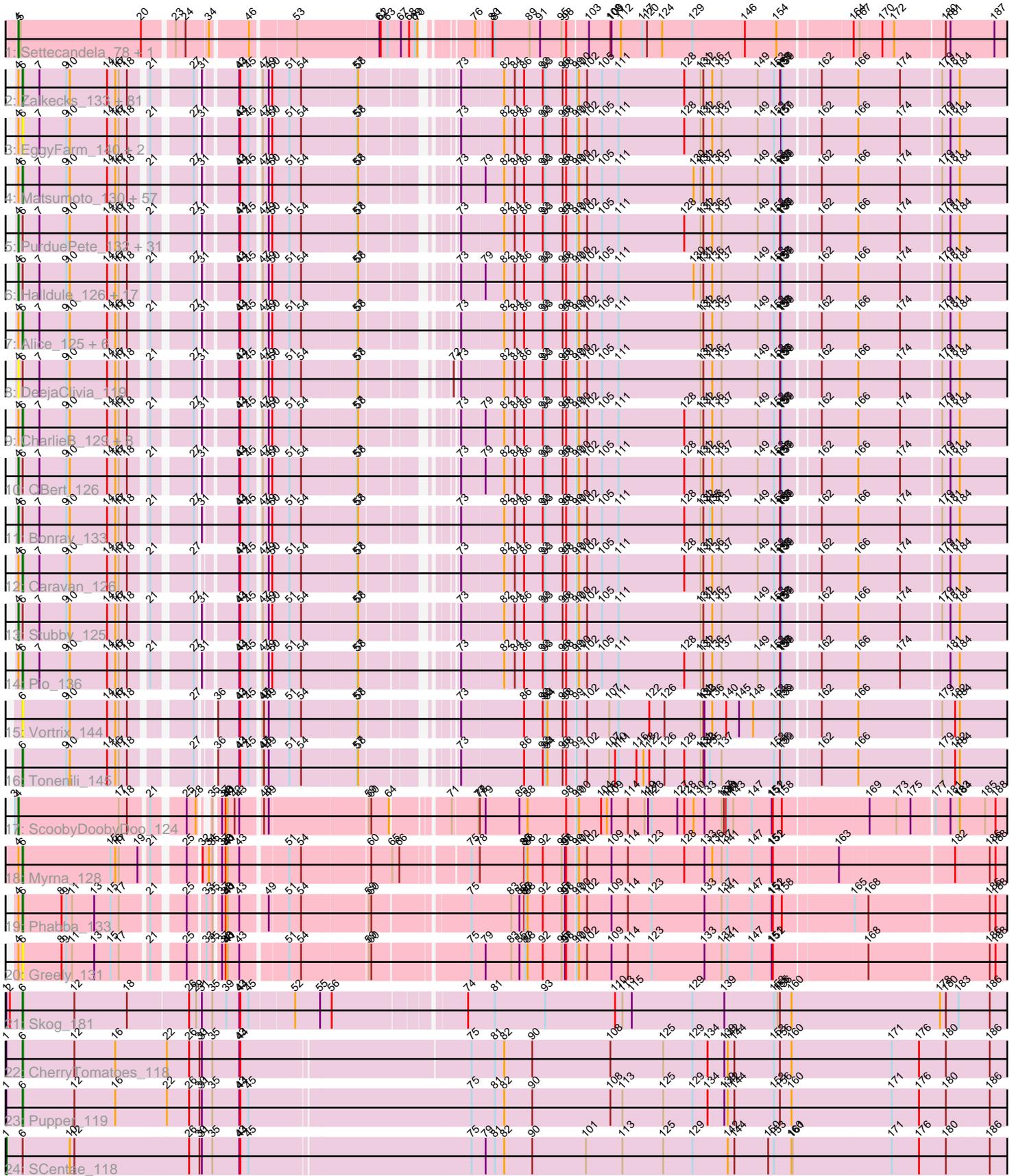


Pham 283471



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 283471 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283471 has 227 members, 38 are drafts.

Phages represented in each track:

- Track 1 : Settecandela\_78, Phrappuccino\_78
- Track 2 : Zalkecks\_133, NuevoMundo\_137, EasyJones\_135, Tyke\_132, Yucca\_131, Izajani\_132, BananaFence\_131, Gabriel\_132, Dandelion\_137, FudgeTart\_130, Domi\_125, Lee7\_130, Wally\_131, Jezreel\_132, Mikro\_129, BackyardAgain\_129, StephanieG\_130, Cane17\_124, Pier\_136, Maby2021\_132, TinyTim\_132, ScottMcG\_128, StubbySaigey\_136, Blubba\_124, Ablatia\_132, LordLeafolot\_136, Nappy\_134, Lukilu\_122, Morizzled23\_133, DTDevon\_132, IkeLoa\_126, Jessibeth14\_131, SrishMeg2525\_131, ParkTD\_133, Rocha\_130, Demodog\_139, BeanWater\_124, Erdmann\_132, Bigswole\_135, Pupusa\_138, Nidhogg\_134, Gizmo\_137, Tainan\_135, NedWong\_133, PharkleMinkus\_136, Bezza\_121, Willis\_133, Shrimp\_132, Darko\_132, YemiJoy2021\_133, Quasimodo\_134, Spud\_131, MoMoMixon\_132, Babyland\_134, Cleatunium\_125, Daffodil\_137, Concombre\_138, ZygoTaiga\_130, Breeniome\_131, HyRo\_123, Rizal\_127, Dietrick\_124, Sauce\_132, Naval22\_137, YoungMoneyMata\_134, Zeenon\_133, Shifa\_121, Megamind\_131, MikeLiesIn\_133, I3\_137, Bread\_131, Khaleesi\_131, Trinitium\_130, Lethe\_130, Pleione\_135, Ava3\_133, JayJay\_137, Salacia\_136, LookingGlass\_132, ChaylaJr\_128, Asterius\_135, Delylah\_135
- Track 3 : EggyFarm\_140, Grasshills\_139, BigCity\_140
- Track 4 : Matsumoto\_130, Bxz1\_129, Sprinklers\_128, Bangla1971\_133, Issimir\_130, Montpel\_131, DirtMonster\_126, Grungle\_119, Fixie\_130, InigoMontoya\_135, Momo\_132, Guwapp\_131, Gamgam\_133, Ghost\_131, CindyLou\_134, Jemmno\_132, Drazdys\_130, Jaygup\_132, Jedediah\_135, ET08\_120, ShiaLabeouf\_131, Astraea\_128, Primadonna\_126, Dessert\_130, Chomp\_132, GlutenPhree\_134, BobaPhatt\_127, Lunareta\_131, Ronan\_126, Bowman\_129, Labradorite\_131, Yassified\_129, LifeSavor\_130, Spec\_128, Roots515\_131, Littleton\_132, LolaVinca\_132, Burrough\_132, Ading\_132, Cali\_127, Kboogie\_136, SilverDipper\_134, Capablanca\_135, Derek\_131, Audrick\_135, Phlegm\_136, LRRHood\_125, Latch\_133, Ngannou\_129, JPickles\_129, ArcherS7\_131, Belieber\_128, Koguma\_129, Substance289\_130, ErnieJ\_126, Catera\_128, Janiyra\_135, Adlitam\_133
- Track 5 : PurduePete\_132, EmToTheThree\_134, Basquiat\_129, FoxtrotP1\_132, Cactojaque\_128, DrPhinkDaddy\_131, Mangeria\_132, Iota\_127, Flabslab\_127, Fongie\_130, Ewok\_133, Kamryn\_132, Chargie21\_129, Loanshark\_131, Fludd\_133, Blackbrain\_128, McWolfish\_130, RoMag\_127, OrediggerDelux\_130, Shelob\_134, ChickenPhender\_128, NoodleTree\_139, Colt\_124, Bipolarisk\_131, BadAgartude\_128, Norm\_133, Delilah\_132, Melpomini\_126, Napoleon13\_128, Tortoise16\_129, FrayBell\_137, EmmaElysia\_133

- Track 6 : Halldule\_126, JustHall\_130, Shnickers\_132, Atlantean\_132, Specks\_137, Pivoine\_132, Shaqato\_125, Essence\_129, ValleyTerrace\_133, Teardrop\_131, Amataga\_133, Patter\_133, Naija\_132, InterFolia\_138, SmallFry\_132, Rahel\_131, Maturis\_130, Phusco\_132
- Track 7 : Alice\_125, Pinkcreek\_123, LinStu\_130, Moiqah\_124, Rabinovish\_131, Moby\_125, Sebata\_132
- Track 8 : DeejaClivia\_119
- Track 9 : CharlieB\_129, JigglyPuff\_140, Duckfeet\_126, JulietS\_126, SVoro\_130, Blackdragon\_128, Turret\_128, McGee\_134, Phox\_129
- Track 10 : QBert\_126
- Track 11 : Bonray\_133
- Track 12 : Caravan\_126
- Track 13 : Stubby\_125
- Track 14 : Pio\_136
- Track 15 : Vortrix\_144
- Track 16 : Tonenili\_145
- Track 17 : ScoobyDoobyDoo\_124
- Track 18 : Myrna\_128
- Track 19 : Phabba\_133
- Track 20 : Greely\_131
- Track 21 : Skog\_181
- Track 22 : CherryTomatoes\_118
- Track 23 : Pupper\_119
- Track 24 : SCentae\_118

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

The start number called the most often in the published annotations is 6, it was called in 136 of the 189 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ablatia\_132, Ading\_132, Adlitam\_133, Alice\_125, ArcherS7\_131, Asterius\_135, Astraea\_128, Audrick\_135, Ava3\_133, Babyland\_134, BackyardAgain\_129, BananaFence\_131, Bangla1971\_133, BeanWater\_124, Belieber\_128, Bezza\_121, BigCity\_140, Bigswole\_135, Blackdragon\_128, Blubba\_124, BobaPhatt\_127, Bowman\_129, Bread\_131, Breeniome\_131, Burrough\_132, Bxz1\_129, Cali\_127, Cane17\_124, Capablanca\_135, Caravan\_126, Catera\_128, CharlieB\_129, ChaylaJr\_128, CherryTomatoes\_118, Chomp\_132, CindyLou\_134, Cleatunium\_125, Concombre\_138, DTDevon\_132, Daffodil\_137, Dandelion\_137, Darko\_132, Delylah\_135, Demodog\_139, Derek\_131, Dessert\_130, Dietrick\_124, DirtMonster\_126, Domi\_125, Drazdys\_130, Duckfeet\_126, ET08\_120, EasyJones\_135, EggyFarm\_140, Erdmann\_132, ErnieJ\_126, Fixie\_130, FudgeTart\_130, Gabriel\_132, Gamgam\_133, Ghost\_131, Gizmo\_137, GlutenPhree\_134, Grasshills\_139, Greely\_131, Grungle\_119, Guwapp\_131, HyRo\_123, I3\_137, IkeLoa\_126, InigoMontoya\_135, Issimir\_130, Izajani\_132, JPickles\_129, Janiyra\_135, JayJay\_137, Jaygup\_132, Jedediah\_135, Jemmno\_132, Jessibeth14\_131, Jezreel\_132, JigglyPuff\_140, JulietS\_126, Kboogie\_136, Khaleesi\_131, Koguma\_129, LRRHood\_125, Labradorite\_131, Latch\_133, Lee7\_130, Lethe\_130, LifeSavor\_130, LinStu\_130, Littleton\_132, LolaVinca\_132, LookingGlass\_132, LordLeafolot\_136, Lukilu\_122, Lunareta\_131, Maby2021\_132,

Matsumoto\_130, McGee\_134, Megamind\_131, MikeLiesIn\_133, Mikro\_129, MoMoMixon\_132, Moby\_125, Moidah\_124, Momo\_132, Montpel\_131, Morizzled23\_133, Myrna\_128, Nappy\_134, Naval22\_137, NedWong\_133, Ngannou\_129, Nidhogg\_134, NuevoMundo\_137, ParkTD\_133, Phabba\_133, PharkleMinkus\_136, Phlegm\_136, Phox\_129, Pier\_136, Pinkcreek\_123, Pio\_136, Pleione\_135, Primadonna\_126, Pupper\_119, Pupusa\_138, Quasimodo\_134, Rabinovish\_131, Rizal\_127, Rocha\_130, Ronan\_126, Roots515\_131, SVoro\_130, Salacia\_136, Sauce\_132, ScottMcG\_128, Sebata\_132, ShiaLabeouf\_131, Shifa\_121, Shrimp\_132, SilverDipper\_134, Skog\_181, Spec\_128, Sprinklers\_128, Spud\_131, SrishMeg2525\_131, StephanieG\_130, StubbySaigey\_136, Substance289\_130, Tainan\_135, TinyTim\_132, Tonenili\_145, Trinitium\_130, Turret\_128, Tyke\_132, Vortrix\_144, Wally\_131, Willis\_133, Yassified\_129, YemiJoy2021\_133, YoungMoneyMata\_134, Yucca\_131, Zalkecks\_133, Zeenon\_133, ZygoTaiga\_130,

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

- Amataga\_133, Atlantean\_132, BadAgartude\_128, Basquiat\_129, Bipolarisk\_131, Blackbrain\_128, Bonray\_133, Cactojaque\_128, Chargie21\_129, ChickenPhender\_128, Colt\_124, DeejaClivia\_119, Delilah\_132, DrPhinkDaddy\_131, EmToTheThree\_134, EmmaElysia\_133, Essence\_129, Ewok\_133, Flabslab\_127, Fludd\_133, Fongie\_130, FoxtrotP1\_132, FrayBell\_137, Halldule\_126, InterFolia\_138, Iota\_127, JustHall\_130, Kamryn\_132, Loanshark\_131, Mangeria\_132, Maturis\_130, McWolfish\_130, Melpomini\_126, Naija\_132, Napoleon13\_128, NoodleTree\_139, Norm\_133, OrediggerDelux\_130, Patter\_133, Phusco\_132, Pivoine\_132, PurduePete\_132, QBert\_126, Rahel\_131, RoMag\_127, SCentae\_118, Shaqato\_125, Shelob\_134, Shnickers\_132, SmallFry\_132, Specks\_137, Stubby\_125, Teardrop\_131, Tortoise16\_129, ValleyTerrace\_133,

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

- Phrappuccino\_78, ScoobyDoobyDoo\_124, Settecandela\_78,

### Summary by start number:

Start 1:

- Found in 4 of 227 ( 1.8% ) of genes in pham
- Manual Annotations of this start: 1 of 189
- Called 25.0% of time when present
- Phage (with cluster) where this start called: SCentae\_118 (DO),

Start 4:

- Found in 221 of 227 ( 97.4% ) of genes in pham
- Manual Annotations of this start: 52 of 189
- Called 25.8% of time when present
- Phage (with cluster) where this start called: Amataga\_133 (C1), Atlantean\_132 (C1), BadAgartude\_128 (C1), Basquiat\_129 (C1), Bipolarisk\_131 (C1), Blackbrain\_128 (C1), Bonray\_133 (C1), Cactojaque\_128 (C1), Chargie21\_129 (C1), ChickenPhender\_128 (C1), Colt\_124 (C1), DeejaClivia\_119 (C1), Delilah\_132 (C1), DrPhinkDaddy\_131 (C1), EmToTheThree\_134 (C1), EmmaElysia\_133 (C1), Essence\_129 (C1), Ewok\_133 (C1), Flabslab\_127 (C1), Fludd\_133 (C1), Fongie\_130 (C1), FoxtrotP1\_132 (C1), FrayBell\_137 (C1), Halldule\_126 (C1), InterFolia\_138 (C1), Iota\_127 (C1), JustHall\_130 (C1), Kamryn\_132 (C1), Loanshark\_131 (C1), Mangeria\_132 (C1), Maturis\_130 (C1), McWolfish\_130 (C1), Melpomini\_126 (C1), Naija\_132 (C1), Napoleon13\_128 (C1), NoodleTree\_139 (C1), Norm\_133 (C1), OrediggerDelux\_130 (C1), Patter\_133 (C1), Phrappuccino\_78 (AA), Phusco\_132

(C1), Pivoine\_132 (C1), PurduePete\_132 (C1), QBert\_126 (C1), Rahel\_131 (C1), RoMag\_127 (C1), ScoobyDoobyDoo\_124 (C2), Settecandela\_78 (AA), Shaqato\_125 (C1), Shelob\_134 (C1), Shnickers\_132 (C1), SmallFry\_132 (C1), Specks\_137 (C1), Stubby\_125 (C1), Teardrop\_131 (C1), Tortoise16\_129 (C1), ValleyTerrace\_133 (C1),

Start 6:

- Found in 224 of 227 ( 98.7% ) of genes in pham
- Manual Annotations of this start: 136 of 189
- Called 75.4% of time when present
- Phage (with cluster) where this start called: Ablatia\_132 (C1), Ading\_132 (C1), Adlitam\_133 (C1), Alice\_125 (C1), ArcherS7\_131 (C1), Asterius\_135 (C1), Astraea\_128 (C1), Audrick\_135 (C1), Ava3\_133 (C1), Babyland\_134 (C1), BackyardAgain\_129 (C1), BananaFence\_131 (C1), Bangla1971\_133 (C1), BeanWater\_124 (C1), Belieber\_128 (C1), Bezza\_121 (C1), BigCity\_140 (C1), Bigswole\_135 (C1), Blackdragon\_128 (C1), Blubba\_124 (C1), BobaPhatt\_127 (C1), Bowman\_129 (C1), Bread\_131 (C1), Breeniome\_131 (C1), Burrough\_132 (C1), Bxz1\_129 (C1), Cali\_127 (C1), Cane17\_124 (C1), Capablanca\_135 (C1), Caravan\_126 (C1), Catera\_128 (C1), CharlieB\_129 (C1), ChaylaJr\_128 (C1), CherryTomatoes\_118 (DO), Chomp\_132 (C1), CindyLou\_134 (C1), Cleatunium\_125 (C1), Concombre\_138 (C1), DTDevon\_132 (C1), Daffodil\_137 (C1), Dandelion\_137 (C1), Darko\_132 (C1), Delylah\_135 (C1), Demodog\_139 (C1), Derek\_131 (C1), Dessert\_130 (C1), Dietrick\_124 (C1), DirtMonster\_126 (C1), Domi\_125 (C1), Drazdys\_130 (C1), Duckfeet\_126 (C1), ET08\_120 (C1), EasyJones\_135 (C1), EggyFarm\_140 (C1), Erdmann\_132 (C1), ErnieJ\_126 (C1), Fixie\_130 (C1), FudgeTart\_130 (C1), Gabriel\_132 (C1), Gamgam\_133 (C1), Ghost\_131 (C1), Gizmo\_137 (C1), GlutenPhree\_134 (C1), Grasshills\_139 (C1), Greely\_131 (C2), Grungle\_119 (C1), Guwapp\_131 (C1), HyRo\_123 (C1), I3\_137 (C1), IkeLoa\_126 (C1), InigoMontoya\_135 (C1), Issimir\_130 (C1), Izajani\_132 (C1), JPickles\_129 (C1), Janiyra\_135 (C1), JayJay\_137 (C1), Jaygup\_132 (C1), Jedediah\_135 (C1), Jemmno\_132 (C1), Jessibeth14\_131 (C1), Jezreel\_132 (C1), JigglyPuff\_140 (C1), JulietS\_126 (C1), Kboogie\_136 (C1), Khaleesi\_131 (C1), Koguma\_129 (C1), LRRHood\_125 (C1), Labradorite\_131 (C1), Latch\_133 (C1), Lee7\_130 (C1), Lethe\_130 (C1), LifeSavor\_130 (C1), LinStu\_130 (C1), Littleton\_132 (C1), LolaVinca\_132 (C1), LookingGlass\_132 (C1), LordLeafot\_136 (C1), Lukilu\_122 (C1), Lunareta\_131 (C1), Maby2021\_132 (C1), Matsumoto\_130 (C1), McGee\_134 (C1), Megamind\_131 (C1), MikeLiesln\_133 (C1), Mikro\_129 (C1), MoMoMixon\_132 (C1), Moby\_125 (C1), Moiqah\_124 (C1), Momo\_132 (C1), Montpel\_131 (C1), Morizzled23\_133 (C1), Myrna\_128 (C2), Nappy\_134 (C1), Naval22\_137 (C1), NedWong\_133 (C1), Ngannou\_129 (C1), Nidhogg\_134 (C1), NuevoMundo\_137 (C1), ParkTD\_133 (C1), Phabba\_133 (C2), PharkleMinkus\_136 (C1), Phlegm\_136 (C1), Phox\_129 (C1), Pier\_136 (C1), Pinkcreek\_123 (C1), Pio\_136 (C1), Pleione\_135 (C1), Primadonna\_126 (C1), Pupper\_119 (DO), Pupusa\_138 (C1), Quasimodo\_134 (C1), Rabinovish\_131 (C1), Rizal\_127 (C1), Rocha\_130 (C1), Ronan\_126 (C1), Roots515\_131 (C1), SVoro\_130 (C1), Salacia\_136 (C1), Sauce\_132 (C1), ScottMcG\_128 (C1), Sebata\_132 (C1), ShiaLabeouf\_131 (C1), Shifa\_121 (C1), Shrimp\_132 (C1), SilverDipper\_134 (C1), Skog\_181 (DO), Spec\_128 (C1), Sprinklers\_128 (C1), Spud\_131 (C1), SrishMeg2525\_131 (C1), StephanieG\_130 (C1), StubbySaigey\_136 (C1), Substance289\_130 (C1), Tainan\_135 (C1), TinyTim\_132 (C1), Tonerili\_145 (C1), Trinitium\_130 (C1), Turret\_128 (C1), Tyke\_132 (C1), Vortrix\_144 (C1), Wally\_131 (C1), Willis\_133 (C1), Yassified\_129 (C1), YemiJoy2021\_133 (C1), YoungMoneyMata\_134 (C1), Yucca\_131 (C1), Zalkecks\_133 (C1), Zeenon\_133 (C1), ZygoTaiga\_130 (C1),

## Summary by clusters:

There are 4 clusters represented in this pham: AA, DO, C1, C2,

Info for manual annotations of cluster AA:

- Start number 4 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster C1:

- Start number 4 was manually annotated 49 times for cluster C1.
- Start number 6 was manually annotated 131 times for cluster C1.

Info for manual annotations of cluster C2:

- Start number 4 was manually annotated 1 time for cluster C2.
- Start number 6 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster DO:

- Start number 1 was manually annotated 1 time for cluster DO.
- Start number 6 was manually annotated 3 times for cluster DO.

## Gene Information:

Gene: Ablatia\_132 Start: 71595, Stop: 73853, Start Num: 6

Candidate Starts for Ablatia\_132:

(Start: 4 @71586 has 52 MA's), (Start: 6 @71595 has 136 MA's), (7, 71634), (9, 71703), (10, 71712), (14, 71808), (16, 71829), (17, 71838), (18, 71859), (21, 71895), (27, 71979), (31, 71988), (43, 72063), (44, 72066), (45, 72087), (47, 72108), (49, 72123), (50, 72132), (51, 72171), (54, 72201), (57, 72339), (58, 72342), (73, 72510), (82, 72609), (84, 72636), (86, 72660), (92, 72708), (93, 72714), (96, 72759), (98, 72768), (99, 72789), (100, 72795), (102, 72813), (105, 72852), (111, 72894), (128, 73062), (131, 73104), (132, 73110), (136, 73131), (137, 73155), (149, 73242), (153, 73284), (156, 73299), (157, 73302), (159, 73305), (162, 73383), (166, 73473), (174, 73575), (179, 73662), (181, 73680), (184, 73704),

Gene: Ading\_132 Start: 71564, Stop: 73822, Start Num: 6

Candidate Starts for Ading\_132:

(Start: 4 @71555 has 52 MA's), (Start: 6 @71564 has 136 MA's), (7, 71603), (9, 71672), (10, 71681), (14, 71777), (16, 71798), (17, 71807), (18, 71828), (21, 71864), (27, 71948), (31, 71957), (43, 72032), (44, 72035), (45, 72056), (47, 72077), (49, 72092), (50, 72101), (51, 72140), (54, 72170), (57, 72308), (58, 72311), (73, 72479), (79, 72530), (82, 72578), (84, 72605), (86, 72629), (92, 72677), (93, 72683), (96, 72728), (98, 72737), (99, 72758), (100, 72764), (102, 72782), (105, 72821), (111, 72863), (130, 73055), (131, 73073), (132, 73079), (136, 73100), (137, 73124), (149, 73211), (153, 73253), (156, 73268), (157, 73271), (159, 73274), (162, 73352), (166, 73442), (174, 73544), (179, 73631), (181, 73649), (184, 73673),

Gene: Adlitam\_133 Start: 72060, Stop: 74318, Start Num: 6

Candidate Starts for Adlitam\_133:

(Start: 4 @72051 has 52 MA's), (Start: 6 @72060 has 136 MA's), (7, 72099), (9, 72168), (10, 72177), (14, 72273), (16, 72294), (17, 72303), (18, 72324), (21, 72360), (27, 72444), (31, 72453), (43, 72528), (44, 72531), (45, 72552), (47, 72573), (49, 72588), (50, 72597), (51, 72636), (54, 72666), (57, 72804), (58, 72807), (73, 72975), (79, 73026), (82, 73074), (84, 73101), (86, 73125), (92, 73173), (93, 73179), (96, 73224), (98, 73233), (99, 73254), (100, 73260), (102, 73278), (105, 73317), (111, 73359), (130,

73551), (131, 73569), (132, 73575), (136, 73596), (137, 73620), (149, 73707), (153, 73749), (156, 73764), (157, 73767), (159, 73770), (162, 73848), (166, 73938), (174, 74040), (179, 74127), (181, 74145), (184, 74169),

Gene: Alice\_125 Start: 71285, Stop: 73543, Start Num: 6

Candidate Starts for Alice\_125:

(Start: 4 @71276 has 52 MA's), (Start: 6 @71285 has 136 MA's), (7, 71324), (9, 71393), (10, 71402), (14, 71498), (16, 71519), (17, 71528), (18, 71549), (21, 71585), (27, 71669), (31, 71678), (43, 71753), (44, 71756), (45, 71777), (47, 71798), (49, 71813), (50, 71822), (51, 71861), (54, 71891), (57, 72029), (58, 72032), (73, 72200), (82, 72299), (84, 72326), (86, 72350), (92, 72398), (93, 72404), (96, 72449), (98, 72458), (99, 72479), (100, 72485), (102, 72503), (105, 72542), (111, 72584), (131, 72794), (132, 72800), (136, 72821), (137, 72845), (149, 72932), (153, 72974), (156, 72989), (157, 72992), (159, 72995), (162, 73073), (166, 73163), (174, 73265), (179, 73352), (181, 73370), (184, 73394),

Gene: Amataga\_133 Start: 71296, Stop: 73563, Start Num: 4

Candidate Starts for Amataga\_133:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: ArcherS7\_131 Start: 71144, Stop: 73402, Start Num: 6

Candidate Starts for ArcherS7\_131:

(Start: 4 @71135 has 52 MA's), (Start: 6 @71144 has 136 MA's), (7, 71183), (9, 71252), (10, 71261), (14, 71357), (16, 71378), (17, 71387), (18, 71408), (21, 71444), (27, 71528), (31, 71537), (43, 71612), (44, 71615), (45, 71636), (47, 71657), (49, 71672), (50, 71681), (51, 71720), (54, 71750), (57, 71888), (58, 71891), (73, 72059), (79, 72110), (82, 72158), (84, 72185), (86, 72209), (92, 72257), (93, 72263), (96, 72308), (98, 72317), (99, 72338), (100, 72344), (102, 72362), (105, 72401), (111, 72443), (130, 72635), (131, 72653), (132, 72659), (136, 72680), (137, 72704), (149, 72791), (153, 72833), (156, 72848), (157, 72851), (159, 72854), (162, 72932), (166, 73022), (174, 73124), (179, 73211), (181, 73229), (184, 73253),

Gene: Asterius\_135 Start: 71820, Stop: 74078, Start Num: 6

Candidate Starts for Asterius\_135:

(Start: 4 @71811 has 52 MA's), (Start: 6 @71820 has 136 MA's), (7, 71859), (9, 71928), (10, 71937), (14, 72033), (16, 72054), (17, 72063), (18, 72084), (21, 72120), (27, 72204), (31, 72213), (43, 72288), (44, 72291), (45, 72312), (47, 72333), (49, 72348), (50, 72357), (51, 72396), (54, 72426), (57, 72564), (58, 72567), (73, 72735), (82, 72834), (84, 72861), (86, 72885), (92, 72933), (93, 72939), (96, 72984), (98, 72993), (99, 73014), (100, 73020), (102, 73038), (105, 73077), (111, 73119), (128, 73287), (131, 73329), (132, 73335), (136, 73356), (137, 73380), (149, 73467), (153, 73509), (156, 73524), (157, 73527), (159, 73530), (162, 73608), (166, 73698), (174, 73800), (179, 73887), (181, 73905), (184, 73929),

Gene: Astraea\_128 Start: 70585, Stop: 72843, Start Num: 6

Candidate Starts for Astraea\_128:

(Start: 4 @70576 has 52 MA's), (Start: 6 @70585 has 136 MA's), (7, 70624), (9, 70693), (10, 70702), (14, 70798), (16, 70819), (17, 70828), (18, 70849), (21, 70885), (27, 70969), (31, 70978), (43, 71053), (44, 71056), (45, 71077), (47, 71098), (49, 71113), (50, 71122), (51, 71161), (54, 71191), (57, 71329), (58, 71332), (73, 71500), (79, 71551), (82, 71599), (84, 71626), (86, 71650), (92, 71698), (93, 71704),

(96, 71749), (98, 71758), (99, 71779), (100, 71785), (102, 71803), (105, 71842), (111, 71884), (130, 72076), (131, 72094), (132, 72100), (136, 72121), (137, 72145), (149, 72232), (153, 72274), (156, 72289), (157, 72292), (159, 72295), (162, 72373), (166, 72463), (174, 72565), (179, 72652), (181, 72670), (184, 72694),

Gene: Atlantean\_132 Start: 71296, Stop: 73563, Start Num: 4

Candidate Starts for Atlantean\_132:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Audrick\_135 Start: 71284, Stop: 73542, Start Num: 6

Candidate Starts for Audrick\_135:

(Start: 4 @71275 has 52 MA's), (Start: 6 @71284 has 136 MA's), (7, 71323), (9, 71392), (10, 71401), (14, 71497), (16, 71518), (17, 71527), (18, 71548), (21, 71584), (27, 71668), (31, 71677), (43, 71752), (44, 71755), (45, 71776), (47, 71797), (49, 71812), (50, 71821), (51, 71860), (54, 71890), (57, 72028), (58, 72031), (73, 72199), (79, 72250), (82, 72298), (84, 72325), (86, 72349), (92, 72397), (93, 72403), (96, 72448), (98, 72457), (99, 72478), (100, 72484), (102, 72502), (105, 72541), (111, 72583), (130, 72775), (131, 72793), (132, 72799), (136, 72820), (137, 72844), (149, 72931), (153, 72973), (156, 72988), (157, 72991), (159, 72994), (162, 73072), (166, 73162), (174, 73264), (179, 73351), (181, 73369), (184, 73393),

Gene: Ava3\_133 Start: 71729, Stop: 73987, Start Num: 6

Candidate Starts for Ava3\_133:

(Start: 4 @71720 has 52 MA's), (Start: 6 @71729 has 136 MA's), (7, 71768), (9, 71837), (10, 71846), (14, 71942), (16, 71963), (17, 71972), (18, 71993), (21, 72029), (27, 72113), (31, 72122), (43, 72197), (44, 72200), (45, 72221), (47, 72242), (49, 72257), (50, 72266), (51, 72305), (54, 72335), (57, 72473), (58, 72476), (73, 72644), (82, 72743), (84, 72770), (86, 72794), (92, 72842), (93, 72848), (96, 72893), (98, 72902), (99, 72923), (100, 72929), (102, 72947), (105, 72986), (111, 73028), (128, 73196), (131, 73238), (132, 73244), (136, 73265), (137, 73289), (149, 73376), (153, 73418), (156, 73433), (157, 73436), (159, 73439), (162, 73517), (166, 73607), (174, 73709), (179, 73796), (181, 73814), (184, 73838),

Gene: Babyland\_134 Start: 71383, Stop: 73641, Start Num: 6

Candidate Starts for Babyland\_134:

(Start: 4 @71374 has 52 MA's), (Start: 6 @71383 has 136 MA's), (7, 71422), (9, 71491), (10, 71500), (14, 71596), (16, 71617), (17, 71626), (18, 71647), (21, 71683), (27, 71767), (31, 71776), (43, 71851), (44, 71854), (45, 71875), (47, 71896), (49, 71911), (50, 71920), (51, 71959), (54, 71989), (57, 72127), (58, 72130), (73, 72298), (82, 72397), (84, 72424), (86, 72448), (92, 72496), (93, 72502), (96, 72547), (98, 72556), (99, 72577), (100, 72583), (102, 72601), (105, 72640), (111, 72682), (128, 72850), (131, 72892), (132, 72898), (136, 72919), (137, 72943), (149, 73030), (153, 73072), (156, 73087), (157, 73090), (159, 73093), (162, 73171), (166, 73261), (174, 73363), (179, 73450), (181, 73468), (184, 73492),

Gene: BackyardAgain\_129 Start: 70732, Stop: 72990, Start Num: 6

Candidate Starts for BackyardAgain\_129:

(Start: 4 @70723 has 52 MA's), (Start: 6 @70732 has 136 MA's), (7, 70771), (9, 70840), (10, 70849), (14, 70945), (16, 70966), (17, 70975), (18, 70996), (21, 71032), (27, 71116), (31, 71125), (43, 71200),

(44, 71203), (45, 71224), (47, 71245), (49, 71260), (50, 71269), (51, 71308), (54, 71338), (57, 71476), (58, 71479), (73, 71647), (82, 71746), (84, 71773), (86, 71797), (92, 71845), (93, 71851), (96, 71896), (98, 71905), (99, 71926), (100, 71932), (102, 71950), (105, 71989), (111, 72031), (128, 72199), (131, 72241), (132, 72247), (136, 72268), (137, 72292), (149, 72379), (153, 72421), (156, 72436), (157, 72439), (159, 72442), (162, 72520), (166, 72610), (174, 72712), (179, 72799), (181, 72817), (184, 72841),

Gene: BadAgartude\_128 Start: 72022, Stop: 74289, Start Num: 4

Candidate Starts for BadAgartude\_128:

(Start: 4 @72022 has 52 MA's), (Start: 6 @72031 has 136 MA's), (7, 72070), (9, 72139), (10, 72148), (14, 72244), (16, 72265), (17, 72274), (18, 72295), (21, 72331), (27, 72415), (31, 72424), (43, 72499), (44, 72502), (45, 72523), (47, 72544), (49, 72559), (50, 72568), (51, 72607), (54, 72637), (57, 72775), (58, 72778), (73, 72946), (82, 73045), (84, 73072), (86, 73096), (92, 73144), (93, 73150), (96, 73195), (98, 73204), (99, 73225), (100, 73231), (102, 73249), (105, 73288), (111, 73330), (128, 73498), (131, 73540), (132, 73546), (136, 73567), (137, 73591), (149, 73678), (153, 73720), (156, 73735), (157, 73738), (159, 73741), (162, 73819), (166, 73909), (174, 74011), (179, 74098), (181, 74116), (184, 74140),

Gene: BananaFence\_131 Start: 71985, Stop: 74243, Start Num: 6

Candidate Starts for BananaFence\_131:

(Start: 4 @71976 has 52 MA's), (Start: 6 @71985 has 136 MA's), (7, 72024), (9, 72093), (10, 72102), (14, 72198), (16, 72219), (17, 72228), (18, 72249), (21, 72285), (27, 72369), (31, 72378), (43, 72453), (44, 72456), (45, 72477), (47, 72498), (49, 72513), (50, 72522), (51, 72561), (54, 72591), (57, 72729), (58, 72732), (73, 72900), (82, 72999), (84, 73026), (86, 73050), (92, 73098), (93, 73104), (96, 73149), (98, 73158), (99, 73179), (100, 73185), (102, 73203), (105, 73242), (111, 73284), (128, 73452), (131, 73494), (132, 73500), (136, 73521), (137, 73545), (149, 73632), (153, 73674), (156, 73689), (157, 73692), (159, 73695), (162, 73773), (166, 73863), (174, 73965), (179, 74052), (181, 74070), (184, 74094),

Gene: Bangla1971\_133 Start: 71274, Stop: 73532, Start Num: 6

Candidate Starts for Bangla1971\_133:

(Start: 4 @71265 has 52 MA's), (Start: 6 @71274 has 136 MA's), (7, 71313), (9, 71382), (10, 71391), (14, 71487), (16, 71508), (17, 71517), (18, 71538), (21, 71574), (27, 71658), (31, 71667), (43, 71742), (44, 71745), (45, 71766), (47, 71787), (49, 71802), (50, 71811), (51, 71850), (54, 71880), (57, 72018), (58, 72021), (73, 72189), (79, 72240), (82, 72288), (84, 72315), (86, 72339), (92, 72387), (93, 72393), (96, 72438), (98, 72447), (99, 72468), (100, 72474), (102, 72492), (105, 72531), (111, 72573), (130, 72765), (131, 72783), (132, 72789), (136, 72810), (137, 72834), (149, 72921), (153, 72963), (156, 72978), (157, 72981), (159, 72984), (162, 73062), (166, 73152), (174, 73254), (179, 73341), (181, 73359), (184, 73383),

Gene: Basquiat\_129 Start: 70874, Stop: 73141, Start Num: 4

Candidate Starts for Basquiat\_129:

(Start: 4 @70874 has 52 MA's), (Start: 6 @70883 has 136 MA's), (7, 70922), (9, 70991), (10, 71000), (14, 71096), (16, 71117), (17, 71126), (18, 71147), (21, 71183), (27, 71267), (31, 71276), (43, 71351), (44, 71354), (45, 71375), (47, 71396), (49, 71411), (50, 71420), (51, 71459), (54, 71489), (57, 71627), (58, 71630), (73, 71798), (82, 71897), (84, 71924), (86, 71948), (92, 71996), (93, 72002), (96, 72047), (98, 72056), (99, 72077), (100, 72083), (102, 72101), (105, 72140), (111, 72182), (128, 72350), (131, 72392), (132, 72398), (136, 72419), (137, 72443), (149, 72530), (153, 72572), (156, 72587), (157, 72590), (159, 72593), (162, 72671), (166, 72761), (174, 72863), (179, 72950), (181, 72968), (184, 72992),

Gene: BeanWater\_124 Start: 71583, Stop: 73841, Start Num: 6

Candidate Starts for BeanWater\_124:

(Start: 4 @71574 has 52 MA's), (Start: 6 @71583 has 136 MA's), (7, 71622), (9, 71691), (10, 71700), (14, 71796), (16, 71817), (17, 71826), (18, 71847), (21, 71883), (27, 71967), (31, 71976), (43, 72051), (44, 72054), (45, 72075), (47, 72096), (49, 72111), (50, 72120), (51, 72159), (54, 72189), (57, 72327), (58, 72330), (73, 72498), (82, 72597), (84, 72624), (86, 72648), (92, 72696), (93, 72702), (96, 72747), (98, 72756), (99, 72777), (100, 72783), (102, 72801), (105, 72840), (111, 72882), (128, 73050), (131, 73092), (132, 73098), (136, 73119), (137, 73143), (149, 73230), (153, 73272), (156, 73287), (157, 73290), (159, 73293), (162, 73371), (166, 73461), (174, 73563), (179, 73650), (181, 73668), (184, 73692),

Gene: Belieber\_128 Start: 71058, Stop: 73316, Start Num: 6

Candidate Starts for Belieber\_128:

(Start: 4 @71049 has 52 MA's), (Start: 6 @71058 has 136 MA's), (7, 71097), (9, 71166), (10, 71175), (14, 71271), (16, 71292), (17, 71301), (18, 71322), (21, 71358), (27, 71442), (31, 71451), (43, 71526), (44, 71529), (45, 71550), (47, 71571), (49, 71586), (50, 71595), (51, 71634), (54, 71664), (57, 71802), (58, 71805), (73, 71973), (79, 72024), (82, 72072), (84, 72099), (86, 72123), (92, 72171), (93, 72177), (96, 72222), (98, 72231), (99, 72252), (100, 72258), (102, 72276), (105, 72315), (111, 72357), (130, 72549), (131, 72567), (132, 72573), (136, 72594), (137, 72618), (149, 72705), (153, 72747), (156, 72762), (157, 72765), (159, 72768), (162, 72846), (166, 72936), (174, 73038), (179, 73125), (181, 73143), (184, 73167),

Gene: Bezza\_121 Start: 71641, Stop: 73899, Start Num: 6

Candidate Starts for Bezza\_121:

(Start: 4 @71632 has 52 MA's), (Start: 6 @71641 has 136 MA's), (7, 71680), (9, 71749), (10, 71758), (14, 71854), (16, 71875), (17, 71884), (18, 71905), (21, 71941), (27, 72025), (31, 72034), (43, 72109), (44, 72112), (45, 72133), (47, 72154), (49, 72169), (50, 72178), (51, 72217), (54, 72247), (57, 72385), (58, 72388), (73, 72556), (82, 72655), (84, 72682), (86, 72706), (92, 72754), (93, 72760), (96, 72805), (98, 72814), (99, 72835), (100, 72841), (102, 72859), (105, 72898), (111, 72940), (128, 73108), (131, 73150), (132, 73156), (136, 73177), (137, 73201), (149, 73288), (153, 73330), (156, 73345), (157, 73348), (159, 73351), (162, 73429), (166, 73519), (174, 73621), (179, 73708), (181, 73726), (184, 73750),

Gene: BigCity\_140 Start: 74255, Stop: 76513, Start Num: 6

Candidate Starts for BigCity\_140:

(Start: 4 @74246 has 52 MA's), (Start: 6 @74255 has 136 MA's), (7, 74294), (9, 74363), (10, 74372), (14, 74468), (16, 74489), (17, 74498), (18, 74519), (21, 74555), (27, 74639), (31, 74648), (43, 74723), (44, 74726), (45, 74747), (47, 74768), (49, 74783), (50, 74792), (51, 74831), (54, 74861), (57, 74999), (58, 75002), (73, 75170), (82, 75269), (84, 75296), (86, 75320), (92, 75368), (93, 75374), (96, 75419), (98, 75428), (99, 75449), (100, 75455), (102, 75473), (105, 75512), (111, 75554), (128, 75722), (131, 75764), (132, 75770), (136, 75791), (137, 75815), (149, 75902), (153, 75944), (157, 75962), (159, 75965), (162, 76043), (166, 76133), (174, 76235), (179, 76322), (181, 76340), (184, 76364),

Gene: Bigswole\_135 Start: 73540, Stop: 75798, Start Num: 6

Candidate Starts for Bigswole\_135:

(Start: 4 @73531 has 52 MA's), (Start: 6 @73540 has 136 MA's), (7, 73579), (9, 73648), (10, 73657), (14, 73753), (16, 73774), (17, 73783), (18, 73804), (21, 73840), (27, 73924), (31, 73933), (43, 74008), (44, 74011), (45, 74032), (47, 74053), (49, 74068), (50, 74077), (51, 74116), (54, 74146), (57, 74284), (58, 74287), (73, 74455), (82, 74554), (84, 74581), (86, 74605), (92, 74653), (93, 74659), (96, 74704), (98, 74713), (99, 74734), (100, 74740), (102, 74758), (105, 74797), (111, 74839), (128, 75007), (131, 75049), (132, 75055), (136, 75076), (137, 75100), (149, 75187), (153, 75229), (156, 75244), (157, 75247), (159, 75250), (162, 75328), (166, 75418), (174, 75520), (179, 75607), (181, 75625), (184, 75649),

Gene: Bipolarisk\_131 Start: 71988, Stop: 74255, Start Num: 4

Candidate Starts for Bipolarisk\_131:

(Start: 4 @71988 has 52 MA's), (Start: 6 @71997 has 136 MA's), (7, 72036), (9, 72105), (10, 72114), (14, 72210), (16, 72231), (17, 72240), (18, 72261), (21, 72297), (27, 72381), (31, 72390), (43, 72465), (44, 72468), (45, 72489), (47, 72510), (49, 72525), (50, 72534), (51, 72573), (54, 72603), (57, 72741), (58, 72744), (73, 72912), (82, 73011), (84, 73038), (86, 73062), (92, 73110), (93, 73116), (96, 73161), (98, 73170), (99, 73191), (100, 73197), (102, 73215), (105, 73254), (111, 73296), (128, 73464), (131, 73506), (132, 73512), (136, 73533), (137, 73557), (149, 73644), (153, 73686), (156, 73701), (157, 73704), (159, 73707), (162, 73785), (166, 73875), (174, 73977), (179, 74064), (181, 74082), (184, 74106),

Gene: Blackbrain\_128 Start: 70759, Stop: 73026, Start Num: 4

Candidate Starts for Blackbrain\_128:

(Start: 4 @70759 has 52 MA's), (Start: 6 @70768 has 136 MA's), (7, 70807), (9, 70876), (10, 70885), (14, 70981), (16, 71002), (17, 71011), (18, 71032), (21, 71068), (27, 71152), (31, 71161), (43, 71236), (44, 71239), (45, 71260), (47, 71281), (49, 71296), (50, 71305), (51, 71344), (54, 71374), (57, 71512), (58, 71515), (73, 71683), (82, 71782), (84, 71809), (86, 71833), (92, 71881), (93, 71887), (96, 71932), (98, 71941), (99, 71962), (100, 71968), (102, 71986), (105, 72025), (111, 72067), (128, 72235), (131, 72277), (132, 72283), (136, 72304), (137, 72328), (149, 72415), (153, 72457), (156, 72472), (157, 72475), (159, 72478), (162, 72556), (166, 72646), (174, 72748), (179, 72835), (181, 72853), (184, 72877),

Gene: Blackdragon\_128 Start: 71412, Stop: 73670, Start Num: 6

Candidate Starts for Blackdragon\_128:

(Start: 4 @71403 has 52 MA's), (Start: 6 @71412 has 136 MA's), (7, 71451), (9, 71520), (10, 71529), (14, 71625), (16, 71646), (17, 71655), (18, 71676), (21, 71712), (27, 71796), (31, 71805), (43, 71880), (44, 71883), (45, 71904), (47, 71925), (49, 71940), (50, 71949), (51, 71988), (54, 72018), (57, 72156), (58, 72159), (73, 72327), (79, 72378), (82, 72426), (84, 72453), (86, 72477), (92, 72525), (93, 72531), (96, 72576), (98, 72585), (99, 72606), (100, 72612), (102, 72630), (105, 72669), (111, 72711), (128, 72879), (131, 72921), (132, 72927), (136, 72948), (137, 72972), (149, 73059), (153, 73101), (156, 73116), (157, 73119), (159, 73122), (162, 73200), (166, 73290), (174, 73392), (179, 73479), (181, 73497), (184, 73521),

Gene: Blubba\_124 Start: 73130, Stop: 75388, Start Num: 6

Candidate Starts for Blubba\_124:

(Start: 4 @73121 has 52 MA's), (Start: 6 @73130 has 136 MA's), (7, 73169), (9, 73238), (10, 73247), (14, 73343), (16, 73364), (17, 73373), (18, 73394), (21, 73430), (27, 73514), (31, 73523), (43, 73598), (44, 73601), (45, 73622), (47, 73643), (49, 73658), (50, 73667), (51, 73706), (54, 73736), (57, 73874), (58, 73877), (73, 74045), (82, 74144), (84, 74171), (86, 74195), (92, 74243), (93, 74249), (96, 74294), (98, 74303), (99, 74324), (100, 74330), (102, 74348), (105, 74387), (111, 74429), (128, 74597), (131, 74639), (132, 74645), (136, 74666), (137, 74690), (149, 74777), (153, 74819), (156, 74834), (157, 74837), (159, 74840), (162, 74918), (166, 75008), (174, 75110), (179, 75197), (181, 75215), (184, 75239),

Gene: BobaPhatt\_127 Start: 70347, Stop: 72605, Start Num: 6

Candidate Starts for BobaPhatt\_127:

(Start: 4 @70338 has 52 MA's), (Start: 6 @70347 has 136 MA's), (7, 70386), (9, 70455), (10, 70464), (14, 70560), (16, 70581), (17, 70590), (18, 70611), (21, 70647), (27, 70731), (31, 70740), (43, 70815), (44, 70818), (45, 70839), (47, 70860), (49, 70875), (50, 70884), (51, 70923), (54, 70953), (57, 71091), (58, 71094), (73, 71262), (79, 71313), (82, 71361), (84, 71388), (86, 71412), (92, 71460), (93, 71466), (96, 71511), (98, 71520), (99, 71541), (100, 71547), (102, 71565), (105, 71604), (111, 71646), (130, 71838), (131, 71856), (132, 71862), (136, 71883), (137, 71907), (149, 71994), (153, 72036), (156, 72051), (157, 72054), (159, 72057), (162, 72135), (166, 72225), (174, 72327), (179, 72414), (181, 72432), (184, 72456),

Gene: Bonray\_133 Start: 72630, Stop: 74897, Start Num: 4

Candidate Starts for Bonray\_133:

(Start: 4 @72630 has 52 MA's), (Start: 6 @72639 has 136 MA's), (7, 72678), (9, 72747), (10, 72756), (14, 72852), (16, 72873), (17, 72882), (18, 72903), (21, 72939), (27, 73023), (31, 73032), (43, 73107), (44, 73110), (45, 73131), (47, 73152), (49, 73167), (50, 73176), (51, 73215), (54, 73245), (57, 73383), (58, 73386), (73, 73554), (82, 73653), (84, 73680), (86, 73704), (92, 73752), (93, 73758), (96, 73803), (98, 73812), (99, 73833), (100, 73839), (102, 73857), (105, 73896), (111, 73938), (128, 74106), (131, 74148), (132, 74154), (135, 74169), (136, 74175), (137, 74199), (149, 74286), (153, 74328), (156, 74343), (157, 74346), (159, 74349), (162, 74427), (166, 74517), (174, 74619), (179, 74706), (181, 74724), (184, 74748),

Gene: Bowman\_129 Start: 71721, Stop: 73979, Start Num: 6

Candidate Starts for Bowman\_129:

(Start: 4 @71712 has 52 MA's), (Start: 6 @71721 has 136 MA's), (7, 71760), (9, 71829), (10, 71838), (14, 71934), (16, 71955), (17, 71964), (18, 71985), (21, 72021), (27, 72105), (31, 72114), (43, 72189), (44, 72192), (45, 72213), (47, 72234), (49, 72249), (50, 72258), (51, 72297), (54, 72327), (57, 72465), (58, 72468), (73, 72636), (79, 72687), (82, 72735), (84, 72762), (86, 72786), (92, 72834), (93, 72840), (96, 72885), (98, 72894), (99, 72915), (100, 72921), (102, 72939), (105, 72978), (111, 73020), (130, 73212), (131, 73230), (132, 73236), (136, 73257), (137, 73281), (149, 73368), (153, 73410), (156, 73425), (157, 73428), (159, 73431), (162, 73509), (166, 73599), (174, 73701), (179, 73788), (181, 73806), (184, 73830),

Gene: Bread\_131 Start: 71815, Stop: 74073, Start Num: 6

Candidate Starts for Bread\_131:

(Start: 4 @71806 has 52 MA's), (Start: 6 @71815 has 136 MA's), (7, 71854), (9, 71923), (10, 71932), (14, 72028), (16, 72049), (17, 72058), (18, 72079), (21, 72115), (27, 72199), (31, 72208), (43, 72283), (44, 72286), (45, 72307), (47, 72328), (49, 72343), (50, 72352), (51, 72391), (54, 72421), (57, 72559), (58, 72562), (73, 72730), (82, 72829), (84, 72856), (86, 72880), (92, 72928), (93, 72934), (96, 72979), (98, 72988), (99, 73009), (100, 73015), (102, 73033), (105, 73072), (111, 73114), (128, 73282), (131, 73324), (132, 73330), (136, 73351), (137, 73375), (149, 73462), (153, 73504), (156, 73519), (157, 73522), (159, 73525), (162, 73603), (166, 73693), (174, 73795), (179, 73882), (181, 73900), (184, 73924),

Gene: Breeniome\_131 Start: 70173, Stop: 72431, Start Num: 6

Candidate Starts for Breeniome\_131:

(Start: 4 @70164 has 52 MA's), (Start: 6 @70173 has 136 MA's), (7, 70212), (9, 70281), (10, 70290), (14, 70386), (16, 70407), (17, 70416), (18, 70437), (21, 70473), (27, 70557), (31, 70566), (43, 70641), (44, 70644), (45, 70665), (47, 70686), (49, 70701), (50, 70710), (51, 70749), (54, 70779), (57, 70917), (58, 70920), (73, 71088), (82, 71187), (84, 71214), (86, 71238), (92, 71286), (93, 71292), (96, 71337), (98, 71346), (99, 71367), (100, 71373), (102, 71391), (105, 71430), (111, 71472), (128, 71640), (131, 71682), (132, 71688), (136, 71709), (137, 71733), (149, 71820), (153, 71862), (156, 71877), (157, 71880), (159, 71883), (162, 71961), (166, 72051), (174, 72153), (179, 72240), (181, 72258), (184, 72282),

Gene: Burrough\_132 Start: 72324, Stop: 74582, Start Num: 6

Candidate Starts for Burrough\_132:

(Start: 4 @72315 has 52 MA's), (Start: 6 @72324 has 136 MA's), (7, 72363), (9, 72432), (10, 72441), (14, 72537), (16, 72558), (17, 72567), (18, 72588), (21, 72624), (27, 72708), (31, 72717), (43, 72792), (44, 72795), (45, 72816), (47, 72837), (49, 72852), (50, 72861), (51, 72900), (54, 72930), (57, 73068), (58, 73071), (73, 73239), (79, 73290), (82, 73338), (84, 73365), (86, 73389), (92, 73437), (93, 73443), (96, 73488), (98, 73497), (99, 73518), (100, 73524), (102, 73542), (105, 73581), (111, 73623), (130, 73815), (131, 73833), (132, 73839), (136, 73860), (137, 73884), (149, 73971), (153, 74013), (156,

74028), (157, 74031), (159, 74034), (162, 74112), (166, 74202), (174, 74304), (179, 74391), (181, 74409), (184, 74433),

Gene: Bxz1\_129 Start: 73527, Stop: 75785, Start Num: 6

Candidate Starts for Bxz1\_129:

(Start: 4 @73518 has 52 MA's), (Start: 6 @73527 has 136 MA's), (7, 73566), (9, 73635), (10, 73644), (14, 73740), (16, 73761), (17, 73770), (18, 73791), (21, 73827), (27, 73911), (31, 73920), (43, 73995), (44, 73998), (45, 74019), (47, 74040), (49, 74055), (50, 74064), (51, 74103), (54, 74133), (57, 74271), (58, 74274), (73, 74442), (79, 74493), (82, 74541), (84, 74568), (86, 74592), (92, 74640), (93, 74646), (96, 74691), (98, 74700), (99, 74721), (100, 74727), (102, 74745), (105, 74784), (111, 74826), (130, 75018), (131, 75036), (132, 75042), (136, 75063), (137, 75087), (149, 75174), (153, 75216), (156, 75231), (157, 75234), (159, 75237), (162, 75315), (166, 75405), (174, 75507), (179, 75594), (181, 75612), (184, 75636),

Gene: Cactojaque\_128 Start: 70866, Stop: 73133, Start Num: 4

Candidate Starts for Cactojaque\_128:

(Start: 4 @70866 has 52 MA's), (Start: 6 @70875 has 136 MA's), (7, 70914), (9, 70983), (10, 70992), (14, 71088), (16, 71109), (17, 71118), (18, 71139), (21, 71175), (27, 71259), (31, 71268), (43, 71343), (44, 71346), (45, 71367), (47, 71388), (49, 71403), (50, 71412), (51, 71451), (54, 71481), (57, 71619), (58, 71622), (73, 71790), (82, 71889), (84, 71916), (86, 71940), (92, 71988), (93, 71994), (96, 72039), (98, 72048), (99, 72069), (100, 72075), (102, 72093), (105, 72132), (111, 72174), (128, 72342), (131, 72384), (132, 72390), (136, 72411), (137, 72435), (149, 72522), (153, 72564), (156, 72579), (157, 72582), (159, 72585), (162, 72663), (166, 72753), (174, 72855), (179, 72942), (181, 72960), (184, 72984),

Gene: Cali\_127 Start: 72326, Stop: 74584, Start Num: 6

Candidate Starts for Cali\_127:

(Start: 4 @72317 has 52 MA's), (Start: 6 @72326 has 136 MA's), (7, 72365), (9, 72434), (10, 72443), (14, 72539), (16, 72560), (17, 72569), (18, 72590), (21, 72626), (27, 72710), (31, 72719), (43, 72794), (44, 72797), (45, 72818), (47, 72839), (49, 72854), (50, 72863), (51, 72902), (54, 72932), (57, 73070), (58, 73073), (73, 73241), (79, 73292), (82, 73340), (84, 73367), (86, 73391), (92, 73439), (93, 73445), (96, 73490), (98, 73499), (99, 73520), (100, 73526), (102, 73544), (105, 73583), (111, 73625), (130, 73817), (131, 73835), (132, 73841), (136, 73862), (137, 73886), (149, 73973), (153, 74015), (156, 74030), (157, 74033), (159, 74036), (162, 74114), (166, 74204), (174, 74306), (179, 74393), (181, 74411), (184, 74435),

Gene: Cane17\_124 Start: 73188, Stop: 75446, Start Num: 6

Candidate Starts for Cane17\_124:

(Start: 4 @73179 has 52 MA's), (Start: 6 @73188 has 136 MA's), (7, 73227), (9, 73296), (10, 73305), (14, 73401), (16, 73422), (17, 73431), (18, 73452), (21, 73488), (27, 73572), (31, 73581), (43, 73656), (44, 73659), (45, 73680), (47, 73701), (49, 73716), (50, 73725), (51, 73764), (54, 73794), (57, 73932), (58, 73935), (73, 74103), (82, 74202), (84, 74229), (86, 74253), (92, 74301), (93, 74307), (96, 74352), (98, 74361), (99, 74382), (100, 74388), (102, 74406), (105, 74445), (111, 74487), (128, 74655), (131, 74697), (132, 74703), (136, 74724), (137, 74748), (149, 74835), (153, 74877), (156, 74892), (157, 74895), (159, 74898), (162, 74976), (166, 75066), (174, 75168), (179, 75255), (181, 75273), (184, 75297),

Gene: Capablanca\_135 Start: 73055, Stop: 75313, Start Num: 6

Candidate Starts for Capablanca\_135:

(Start: 4 @73046 has 52 MA's), (Start: 6 @73055 has 136 MA's), (7, 73094), (9, 73163), (10, 73172), (14, 73268), (16, 73289), (17, 73298), (18, 73319), (21, 73355), (27, 73439), (31, 73448), (43, 73523), (44, 73526), (45, 73547), (47, 73568), (49, 73583), (50, 73592), (51, 73631), (54, 73661), (57, 73799), (58, 73802), (73, 73970), (79, 74021), (82, 74069), (84, 74096), (86, 74120), (92, 74168), (93, 74174),

(96, 74219), (98, 74228), (99, 74249), (100, 74255), (102, 74273), (105, 74312), (111, 74354), (130, 74546), (131, 74564), (132, 74570), (136, 74591), (137, 74615), (149, 74702), (153, 74744), (156, 74759), (157, 74762), (159, 74765), (162, 74843), (166, 74933), (174, 75035), (179, 75122), (181, 75140), (184, 75164),

Gene: Caravan\_126 Start: 71683, Stop: 73941, Start Num: 6

Candidate Starts for Caravan\_126:

(Start: 4 @71674 has 52 MA's), (Start: 6 @71683 has 136 MA's), (7, 71722), (9, 71791), (10, 71800), (14, 71896), (16, 71917), (17, 71926), (18, 71947), (21, 71983), (27, 72067), (43, 72151), (44, 72154), (45, 72175), (47, 72196), (49, 72211), (50, 72220), (51, 72259), (54, 72289), (57, 72427), (58, 72430), (73, 72598), (82, 72697), (84, 72724), (86, 72748), (92, 72796), (93, 72802), (96, 72847), (98, 72856), (99, 72877), (100, 72883), (102, 72901), (105, 72940), (111, 72982), (128, 73150), (131, 73192), (132, 73198), (136, 73219), (137, 73243), (149, 73330), (153, 73372), (156, 73387), (157, 73390), (159, 73393), (162, 73471), (166, 73561), (174, 73663), (179, 73750), (181, 73768), (184, 73792),

Gene: Catera\_128 Start: 70590, Stop: 72848, Start Num: 6

Candidate Starts for Catera\_128:

(Start: 4 @70581 has 52 MA's), (Start: 6 @70590 has 136 MA's), (7, 70629), (9, 70698), (10, 70707), (14, 70803), (16, 70824), (17, 70833), (18, 70854), (21, 70890), (27, 70974), (31, 70983), (43, 71058), (44, 71061), (45, 71082), (47, 71103), (49, 71118), (50, 71127), (51, 71166), (54, 71196), (57, 71334), (58, 71337), (73, 71505), (79, 71556), (82, 71604), (84, 71631), (86, 71655), (92, 71703), (93, 71709), (96, 71754), (98, 71763), (99, 71784), (100, 71790), (102, 71808), (105, 71847), (111, 71889), (130, 72081), (131, 72099), (132, 72105), (136, 72126), (137, 72150), (149, 72237), (153, 72279), (156, 72294), (157, 72297), (159, 72300), (162, 72378), (166, 72468), (174, 72570), (179, 72657), (181, 72675), (184, 72699),

Gene: Chargie21\_129 Start: 70874, Stop: 73141, Start Num: 4

Candidate Starts for Chargie21\_129:

(Start: 4 @70874 has 52 MA's), (Start: 6 @70883 has 136 MA's), (7, 70922), (9, 70991), (10, 71000), (14, 71096), (16, 71117), (17, 71126), (18, 71147), (21, 71183), (27, 71267), (31, 71276), (43, 71351), (44, 71354), (45, 71375), (47, 71396), (49, 71411), (50, 71420), (51, 71459), (54, 71489), (57, 71627), (58, 71630), (73, 71798), (82, 71897), (84, 71924), (86, 71948), (92, 71996), (93, 72002), (96, 72047), (98, 72056), (99, 72077), (100, 72083), (102, 72101), (105, 72140), (111, 72182), (128, 72350), (131, 72392), (132, 72398), (136, 72419), (137, 72443), (149, 72530), (153, 72572), (156, 72587), (157, 72590), (159, 72593), (162, 72671), (166, 72761), (174, 72863), (179, 72950), (181, 72968), (184, 72992),

Gene: CharlieB\_129 Start: 71209, Stop: 73467, Start Num: 6

Candidate Starts for CharlieB\_129:

(Start: 4 @71200 has 52 MA's), (Start: 6 @71209 has 136 MA's), (7, 71248), (9, 71317), (10, 71326), (14, 71422), (16, 71443), (17, 71452), (18, 71473), (21, 71509), (27, 71593), (31, 71602), (43, 71677), (44, 71680), (45, 71701), (47, 71722), (49, 71737), (50, 71746), (51, 71785), (54, 71815), (57, 71953), (58, 71956), (73, 72124), (79, 72175), (82, 72223), (84, 72250), (86, 72274), (92, 72322), (93, 72328), (96, 72373), (98, 72382), (99, 72403), (100, 72409), (102, 72427), (105, 72466), (111, 72508), (128, 72676), (131, 72718), (132, 72724), (136, 72745), (137, 72769), (149, 72856), (153, 72898), (156, 72913), (157, 72916), (159, 72919), (162, 72997), (166, 73087), (174, 73189), (179, 73276), (181, 73294), (184, 73318),

Gene: ChaylaJr\_128 Start: 70691, Stop: 72949, Start Num: 6

Candidate Starts for ChaylaJr\_128:

(Start: 4 @70682 has 52 MA's), (Start: 6 @70691 has 136 MA's), (7, 70730), (9, 70799), (10, 70808), (14, 70904), (16, 70925), (17, 70934), (18, 70955), (21, 70991), (27, 71075), (31, 71084), (43, 71159), (44, 71162), (45, 71183), (47, 71204), (49, 71219), (50, 71228), (51, 71267), (54, 71297), (57, 71435),

(58, 71438), (73, 71606), (82, 71705), (84, 71732), (86, 71756), (92, 71804), (93, 71810), (96, 71855), (98, 71864), (99, 71885), (100, 71891), (102, 71909), (105, 71948), (111, 71990), (128, 72158), (131, 72200), (132, 72206), (136, 72227), (137, 72251), (149, 72338), (153, 72380), (156, 72395), (157, 72398), (159, 72401), (162, 72479), (166, 72569), (174, 72671), (179, 72758), (181, 72776), (184, 72800),

Gene: CherryTomatoes\_118 Start: 71847, Stop: 74345, Start Num: 6

Candidate Starts for CherryTomatoes\_118:

(Start: 1 @71805 has 1 MA's), (Start: 6 @71847 has 136 MA's), (12, 71979), (16, 72084), (22, 72210), (26, 72267), (30, 72294), (31, 72300), (35, 72327), (43, 72396), (44, 72399), (75, 72963), (81, 73023), (82, 73047), (90, 73119), (108, 73320), (125, 73455), (129, 73530), (134, 73563), (139, 73602), (142, 73611), (144, 73626), (153, 73728), (156, 73743), (160, 73773), (171, 74031), (176, 74100), (180, 74166), (186, 74277),

Gene: ChickenPhender\_128 Start: 70506, Stop: 72773, Start Num: 4

Candidate Starts for ChickenPhender\_128:

(Start: 4 @70506 has 52 MA's), (Start: 6 @70515 has 136 MA's), (7, 70554), (9, 70623), (10, 70632), (14, 70728), (16, 70749), (17, 70758), (18, 70779), (21, 70815), (27, 70899), (31, 70908), (43, 70983), (44, 70986), (45, 71007), (47, 71028), (49, 71043), (50, 71052), (51, 71091), (54, 71121), (57, 71259), (58, 71262), (73, 71430), (82, 71529), (84, 71556), (86, 71580), (92, 71628), (93, 71634), (96, 71679), (98, 71688), (99, 71709), (100, 71715), (102, 71733), (105, 71772), (111, 71814), (128, 71982), (131, 72024), (132, 72030), (136, 72051), (137, 72075), (149, 72162), (153, 72204), (156, 72219), (157, 72222), (159, 72225), (162, 72303), (166, 72393), (174, 72495), (179, 72582), (181, 72600), (184, 72624),

Gene: Chomp\_132 Start: 72594, Stop: 74852, Start Num: 6

Candidate Starts for Chomp\_132:

(Start: 4 @72585 has 52 MA's), (Start: 6 @72594 has 136 MA's), (7, 72633), (9, 72702), (10, 72711), (14, 72807), (16, 72828), (17, 72837), (18, 72858), (21, 72894), (27, 72978), (31, 72987), (43, 73062), (44, 73065), (45, 73086), (47, 73107), (49, 73122), (50, 73131), (51, 73170), (54, 73200), (57, 73338), (58, 73341), (73, 73509), (79, 73560), (82, 73608), (84, 73635), (86, 73659), (92, 73707), (93, 73713), (96, 73758), (98, 73767), (99, 73788), (100, 73794), (102, 73812), (105, 73851), (111, 73893), (130, 74085), (131, 74103), (132, 74109), (136, 74130), (137, 74154), (149, 74241), (153, 74283), (156, 74298), (157, 74301), (159, 74304), (162, 74382), (166, 74472), (174, 74574), (179, 74661), (181, 74679), (184, 74703),

Gene: CindyLou\_134 Start: 72634, Stop: 74892, Start Num: 6

Candidate Starts for CindyLou\_134:

(Start: 4 @72625 has 52 MA's), (Start: 6 @72634 has 136 MA's), (7, 72673), (9, 72742), (10, 72751), (14, 72847), (16, 72868), (17, 72877), (18, 72898), (21, 72934), (27, 73018), (31, 73027), (43, 73102), (44, 73105), (45, 73126), (47, 73147), (49, 73162), (50, 73171), (51, 73210), (54, 73240), (57, 73378), (58, 73381), (73, 73549), (79, 73600), (82, 73648), (84, 73675), (86, 73699), (92, 73747), (93, 73753), (96, 73798), (98, 73807), (99, 73828), (100, 73834), (102, 73852), (105, 73891), (111, 73933), (130, 74125), (131, 74143), (132, 74149), (136, 74170), (137, 74194), (149, 74281), (153, 74323), (156, 74338), (157, 74341), (159, 74344), (162, 74422), (166, 74512), (174, 74614), (179, 74701), (181, 74719), (184, 74743),

Gene: Cleatunium\_125 Start: 70802, Stop: 73060, Start Num: 6

Candidate Starts for Cleatunium\_125:

(Start: 4 @70793 has 52 MA's), (Start: 6 @70802 has 136 MA's), (7, 70841), (9, 70910), (10, 70919), (14, 71015), (16, 71036), (17, 71045), (18, 71066), (21, 71102), (27, 71186), (31, 71195), (43, 71270), (44, 71273), (45, 71294), (47, 71315), (49, 71330), (50, 71339), (51, 71378), (54, 71408), (57, 71546), (58, 71549), (73, 71717), (82, 71816), (84, 71843), (86, 71867), (92, 71915), (93, 71921), (96, 71966),

(98, 71975), (99, 71996), (100, 72002), (102, 72020), (105, 72059), (111, 72101), (128, 72269), (131, 72311), (132, 72317), (136, 72338), (137, 72362), (149, 72449), (153, 72491), (156, 72506), (157, 72509), (159, 72512), (162, 72590), (166, 72680), (174, 72782), (179, 72869), (181, 72887), (184, 72911),

Gene: Colt\_124 Start: 73296, Stop: 75563, Start Num: 4

Candidate Starts for Colt\_124:

(Start: 4 @73296 has 52 MA's), (Start: 6 @73305 has 136 MA's), (7, 73344), (9, 73413), (10, 73422), (14, 73518), (16, 73539), (17, 73548), (18, 73569), (21, 73605), (27, 73689), (31, 73698), (43, 73773), (44, 73776), (45, 73797), (47, 73818), (49, 73833), (50, 73842), (51, 73881), (54, 73911), (57, 74049), (58, 74052), (73, 74220), (82, 74319), (84, 74346), (86, 74370), (92, 74418), (93, 74424), (96, 74469), (98, 74478), (99, 74499), (100, 74505), (102, 74523), (105, 74562), (111, 74604), (128, 74772), (131, 74814), (132, 74820), (136, 74841), (137, 74865), (149, 74952), (153, 74994), (156, 75009), (157, 75012), (159, 75015), (162, 75093), (166, 75183), (174, 75285), (179, 75372), (181, 75390), (184, 75414),

Gene: Concombre\_138 Start: 74488, Stop: 76746, Start Num: 6

Candidate Starts for Concombre\_138:

(Start: 4 @74479 has 52 MA's), (Start: 6 @74488 has 136 MA's), (7, 74527), (9, 74596), (10, 74605), (14, 74701), (16, 74722), (17, 74731), (18, 74752), (21, 74788), (27, 74872), (31, 74881), (43, 74956), (44, 74959), (45, 74980), (47, 75001), (49, 75016), (50, 75025), (51, 75064), (54, 75094), (57, 75232), (58, 75235), (73, 75403), (82, 75502), (84, 75529), (86, 75553), (92, 75601), (93, 75607), (96, 75652), (98, 75661), (99, 75682), (100, 75688), (102, 75706), (105, 75745), (111, 75787), (128, 75955), (131, 75997), (132, 76003), (136, 76024), (137, 76048), (149, 76135), (153, 76177), (156, 76192), (157, 76195), (159, 76198), (162, 76276), (166, 76366), (174, 76468), (179, 76555), (181, 76573), (184, 76597),

Gene: DTDevon\_132 Start: 72356, Stop: 74614, Start Num: 6

Candidate Starts for DTDevon\_132:

(Start: 4 @72347 has 52 MA's), (Start: 6 @72356 has 136 MA's), (7, 72395), (9, 72464), (10, 72473), (14, 72569), (16, 72590), (17, 72599), (18, 72620), (21, 72656), (27, 72740), (31, 72749), (43, 72824), (44, 72827), (45, 72848), (47, 72869), (49, 72884), (50, 72893), (51, 72932), (54, 72962), (57, 73100), (58, 73103), (73, 73271), (82, 73370), (84, 73397), (86, 73421), (92, 73469), (93, 73475), (96, 73520), (98, 73529), (99, 73550), (100, 73556), (102, 73574), (105, 73613), (111, 73655), (128, 73823), (131, 73865), (132, 73871), (136, 73892), (137, 73916), (149, 74003), (153, 74045), (156, 74060), (157, 74063), (159, 74066), (162, 74144), (166, 74234), (174, 74336), (179, 74423), (181, 74441), (184, 74465),

Gene: Daffodil\_137 Start: 72297, Stop: 74555, Start Num: 6

Candidate Starts for Daffodil\_137:

(Start: 4 @72288 has 52 MA's), (Start: 6 @72297 has 136 MA's), (7, 72336), (9, 72405), (10, 72414), (14, 72510), (16, 72531), (17, 72540), (18, 72561), (21, 72597), (27, 72681), (31, 72690), (43, 72765), (44, 72768), (45, 72789), (47, 72810), (49, 72825), (50, 72834), (51, 72873), (54, 72903), (57, 73041), (58, 73044), (73, 73212), (82, 73311), (84, 73338), (86, 73362), (92, 73410), (93, 73416), (96, 73461), (98, 73470), (99, 73491), (100, 73497), (102, 73515), (105, 73554), (111, 73596), (128, 73764), (131, 73806), (132, 73812), (136, 73833), (137, 73857), (149, 73944), (153, 73986), (156, 74001), (157, 74004), (159, 74007), (162, 74085), (166, 74175), (174, 74277), (179, 74364), (181, 74382), (184, 74406),

Gene: Dandelion\_137 Start: 74489, Stop: 76747, Start Num: 6

Candidate Starts for Dandelion\_137:

(Start: 4 @74480 has 52 MA's), (Start: 6 @74489 has 136 MA's), (7, 74528), (9, 74597), (10, 74606), (14, 74702), (16, 74723), (17, 74732), (18, 74753), (21, 74789), (27, 74873), (31, 74882), (43, 74957),

(44, 74960), (45, 74981), (47, 75002), (49, 75017), (50, 75026), (51, 75065), (54, 75095), (57, 75233), (58, 75236), (73, 75404), (82, 75503), (84, 75530), (86, 75554), (92, 75602), (93, 75608), (96, 75653), (98, 75662), (99, 75683), (100, 75689), (102, 75707), (105, 75746), (111, 75788), (128, 75956), (131, 75998), (132, 76004), (136, 76025), (137, 76049), (149, 76136), (153, 76178), (156, 76193), (157, 76196), (159, 76199), (162, 76277), (166, 76367), (174, 76469), (179, 76556), (181, 76574), (184, 76598),

Gene: Darko\_132 Start: 71989, Stop: 74247, Start Num: 6

Candidate Starts for Darko\_132:

(Start: 4 @71980 has 52 MA's), (Start: 6 @71989 has 136 MA's), (7, 72028), (9, 72097), (10, 72106), (14, 72202), (16, 72223), (17, 72232), (18, 72253), (21, 72289), (27, 72373), (31, 72382), (43, 72457), (44, 72460), (45, 72481), (47, 72502), (49, 72517), (50, 72526), (51, 72565), (54, 72595), (57, 72733), (58, 72736), (73, 72904), (82, 73003), (84, 73030), (86, 73054), (92, 73102), (93, 73108), (96, 73153), (98, 73162), (99, 73183), (100, 73189), (102, 73207), (105, 73246), (111, 73288), (128, 73456), (131, 73498), (132, 73504), (136, 73525), (137, 73549), (149, 73636), (153, 73678), (156, 73693), (157, 73696), (159, 73699), (162, 73777), (166, 73867), (174, 73969), (179, 74056), (181, 74074), (184, 74098),

Gene: DeejaClivia\_119 Start: 68646, Stop: 70913, Start Num: 4

Candidate Starts for DeejaClivia\_119:

(Start: 4 @68646 has 52 MA's), (Start: 6 @68655 has 136 MA's), (7, 68694), (9, 68763), (10, 68772), (14, 68868), (16, 68889), (17, 68898), (18, 68919), (21, 68955), (27, 69039), (31, 69048), (43, 69123), (44, 69126), (45, 69147), (47, 69168), (49, 69183), (50, 69192), (51, 69231), (54, 69261), (57, 69399), (58, 69402), (72, 69561), (73, 69570), (82, 69669), (84, 69696), (86, 69720), (92, 69768), (93, 69774), (96, 69819), (98, 69828), (99, 69849), (100, 69855), (102, 69873), (105, 69912), (111, 69954), (131, 70164), (132, 70170), (136, 70191), (137, 70215), (149, 70302), (153, 70344), (156, 70359), (157, 70362), (159, 70365), (162, 70443), (166, 70533), (174, 70635), (179, 70722), (181, 70740), (184, 70764),

Gene: Delilah\_132 Start: 72442, Stop: 74709, Start Num: 4

Candidate Starts for Delilah\_132:

(Start: 4 @72442 has 52 MA's), (Start: 6 @72451 has 136 MA's), (7, 72490), (9, 72559), (10, 72568), (14, 72664), (16, 72685), (17, 72694), (18, 72715), (21, 72751), (27, 72835), (31, 72844), (43, 72919), (44, 72922), (45, 72943), (47, 72964), (49, 72979), (50, 72988), (51, 73027), (54, 73057), (57, 73195), (58, 73198), (73, 73366), (82, 73465), (84, 73492), (86, 73516), (92, 73564), (93, 73570), (96, 73615), (98, 73624), (99, 73645), (100, 73651), (102, 73669), (105, 73708), (111, 73750), (128, 73918), (131, 73960), (132, 73966), (136, 73987), (137, 74011), (149, 74098), (153, 74140), (156, 74155), (157, 74158), (159, 74161), (162, 74239), (166, 74329), (174, 74431), (179, 74518), (181, 74536), (184, 74560),

Gene: Delylah\_135 Start: 71990, Stop: 74248, Start Num: 6

Candidate Starts for Delylah\_135:

(Start: 4 @71981 has 52 MA's), (Start: 6 @71990 has 136 MA's), (7, 72029), (9, 72098), (10, 72107), (14, 72203), (16, 72224), (17, 72233), (18, 72254), (21, 72290), (27, 72374), (31, 72383), (43, 72458), (44, 72461), (45, 72482), (47, 72503), (49, 72518), (50, 72527), (51, 72566), (54, 72596), (57, 72734), (58, 72737), (73, 72905), (82, 73004), (84, 73031), (86, 73055), (92, 73103), (93, 73109), (96, 73154), (98, 73163), (99, 73184), (100, 73190), (102, 73208), (105, 73247), (111, 73289), (128, 73457), (131, 73499), (132, 73505), (136, 73526), (137, 73550), (149, 73637), (153, 73679), (156, 73694), (157, 73697), (159, 73700), (162, 73778), (166, 73868), (174, 73970), (179, 74057), (181, 74075), (184, 74099),

Gene: Demodog\_139 Start: 74497, Stop: 76755, Start Num: 6

Candidate Starts for Demodog\_139:

(Start: 4 @74488 has 52 MA's), (Start: 6 @74497 has 136 MA's), (7, 74536), (9, 74605), (10, 74614), (14, 74710), (16, 74731), (17, 74740), (18, 74761), (21, 74797), (27, 74881), (31, 74890), (43, 74965), (44, 74968), (45, 74989), (47, 75010), (49, 75025), (50, 75034), (51, 75073), (54, 75103), (57, 75241), (58, 75244), (73, 75412), (82, 75511), (84, 75538), (86, 75562), (92, 75610), (93, 75616), (96, 75661), (98, 75670), (99, 75691), (100, 75697), (102, 75715), (105, 75754), (111, 75796), (128, 75964), (131, 76006), (132, 76012), (136, 76033), (137, 76057), (149, 76144), (153, 76186), (156, 76201), (157, 76204), (159, 76207), (162, 76285), (166, 76375), (174, 76477), (179, 76564), (181, 76582), (184, 76606),

Gene: Derek\_131 Start: 71916, Stop: 74174, Start Num: 6

Candidate Starts for Derek\_131:

(Start: 4 @71907 has 52 MA's), (Start: 6 @71916 has 136 MA's), (7, 71955), (9, 72024), (10, 72033), (14, 72129), (16, 72150), (17, 72159), (18, 72180), (21, 72216), (27, 72300), (31, 72309), (43, 72384), (44, 72387), (45, 72408), (47, 72429), (49, 72444), (50, 72453), (51, 72492), (54, 72522), (57, 72660), (58, 72663), (73, 72831), (79, 72882), (82, 72930), (84, 72957), (86, 72981), (92, 73029), (93, 73035), (96, 73080), (98, 73089), (99, 73110), (100, 73116), (102, 73134), (105, 73173), (111, 73215), (130, 73407), (131, 73425), (132, 73431), (136, 73452), (137, 73476), (149, 73563), (153, 73605), (156, 73620), (157, 73623), (159, 73626), (162, 73704), (166, 73794), (174, 73896), (179, 73983), (181, 74001), (184, 74025),

Gene: Dessert\_130 Start: 70871, Stop: 73129, Start Num: 6

Candidate Starts for Dessert\_130:

(Start: 4 @70862 has 52 MA's), (Start: 6 @70871 has 136 MA's), (7, 70910), (9, 70979), (10, 70988), (14, 71084), (16, 71105), (17, 71114), (18, 71135), (21, 71171), (27, 71255), (31, 71264), (43, 71339), (44, 71342), (45, 71363), (47, 71384), (49, 71399), (50, 71408), (51, 71447), (54, 71477), (57, 71615), (58, 71618), (73, 71786), (79, 71837), (82, 71885), (84, 71912), (86, 71936), (92, 71984), (93, 71990), (96, 72035), (98, 72044), (99, 72065), (100, 72071), (102, 72089), (105, 72128), (111, 72170), (130, 72362), (131, 72380), (132, 72386), (136, 72407), (137, 72431), (149, 72518), (153, 72560), (156, 72575), (157, 72578), (159, 72581), (162, 72659), (166, 72749), (174, 72851), (179, 72938), (181, 72956), (184, 72980),

Gene: Dietrick\_124 Start: 69992, Stop: 72250, Start Num: 6

Candidate Starts for Dietrick\_124:

(Start: 4 @69983 has 52 MA's), (Start: 6 @69992 has 136 MA's), (7, 70031), (9, 70100), (10, 70109), (14, 70205), (16, 70226), (17, 70235), (18, 70256), (21, 70292), (27, 70376), (31, 70385), (43, 70460), (44, 70463), (45, 70484), (47, 70505), (49, 70520), (50, 70529), (51, 70568), (54, 70598), (57, 70736), (58, 70739), (73, 70907), (82, 71006), (84, 71033), (86, 71057), (92, 71105), (93, 71111), (96, 71156), (98, 71165), (99, 71186), (100, 71192), (102, 71210), (105, 71249), (111, 71291), (128, 71459), (131, 71501), (132, 71507), (136, 71528), (137, 71552), (149, 71639), (153, 71681), (156, 71696), (157, 71699), (159, 71702), (162, 71780), (166, 71870), (174, 71972), (179, 72059), (181, 72077), (184, 72101),

Gene: DirtMonster\_126 Start: 71250, Stop: 73508, Start Num: 6

Candidate Starts for DirtMonster\_126:

(Start: 4 @71241 has 52 MA's), (Start: 6 @71250 has 136 MA's), (7, 71289), (9, 71358), (10, 71367), (14, 71463), (16, 71484), (17, 71493), (18, 71514), (21, 71550), (27, 71634), (31, 71643), (43, 71718), (44, 71721), (45, 71742), (47, 71763), (49, 71778), (50, 71787), (51, 71826), (54, 71856), (57, 71994), (58, 71997), (73, 72165), (79, 72216), (82, 72264), (84, 72291), (86, 72315), (92, 72363), (93, 72369), (96, 72414), (98, 72423), (99, 72444), (100, 72450), (102, 72468), (105, 72507), (111, 72549), (130, 72741), (131, 72759), (132, 72765), (136, 72786), (137, 72810), (149, 72897), (153, 72939), (156, 72954), (157, 72957), (159, 72960), (162, 73038), (166, 73128), (174, 73230), (179, 73317), (181, 73335), (184, 73359),

Gene: Domi\_125 Start: 71329, Stop: 73587, Start Num: 6

Candidate Starts for Domi\_125:

(Start: 4 @71320 has 52 MA's), (Start: 6 @71329 has 136 MA's), (7, 71368), (9, 71437), (10, 71446), (14, 71542), (16, 71563), (17, 71572), (18, 71593), (21, 71629), (27, 71713), (31, 71722), (43, 71797), (44, 71800), (45, 71821), (47, 71842), (49, 71857), (50, 71866), (51, 71905), (54, 71935), (57, 72073), (58, 72076), (73, 72244), (82, 72343), (84, 72370), (86, 72394), (92, 72442), (93, 72448), (96, 72493), (98, 72502), (99, 72523), (100, 72529), (102, 72547), (105, 72586), (111, 72628), (128, 72796), (131, 72838), (132, 72844), (136, 72865), (137, 72889), (149, 72976), (153, 73018), (156, 73033), (157, 73036), (159, 73039), (162, 73117), (166, 73207), (174, 73309), (179, 73396), (181, 73414), (184, 73438),

Gene: DrPhinkDaddy\_131 Start: 72500, Stop: 74767, Start Num: 4

Candidate Starts for DrPhinkDaddy\_131:

(Start: 4 @72500 has 52 MA's), (Start: 6 @72509 has 136 MA's), (7, 72548), (9, 72617), (10, 72626), (14, 72722), (16, 72743), (17, 72752), (18, 72773), (21, 72809), (27, 72893), (31, 72902), (43, 72977), (44, 72980), (45, 73001), (47, 73022), (49, 73037), (50, 73046), (51, 73085), (54, 73115), (57, 73253), (58, 73256), (73, 73424), (82, 73523), (84, 73550), (86, 73574), (92, 73622), (93, 73628), (96, 73673), (98, 73682), (99, 73703), (100, 73709), (102, 73727), (105, 73766), (111, 73808), (128, 73976), (131, 74018), (132, 74024), (136, 74045), (137, 74069), (149, 74156), (153, 74198), (156, 74213), (157, 74216), (159, 74219), (162, 74297), (166, 74387), (174, 74489), (179, 74576), (181, 74594), (184, 74618),

Gene: Drazdys\_130 Start: 70980, Stop: 73238, Start Num: 6

Candidate Starts for Drazdys\_130:

(Start: 4 @70971 has 52 MA's), (Start: 6 @70980 has 136 MA's), (7, 71019), (9, 71088), (10, 71097), (14, 71193), (16, 71214), (17, 71223), (18, 71244), (21, 71280), (27, 71364), (31, 71373), (43, 71448), (44, 71451), (45, 71472), (47, 71493), (49, 71508), (50, 71517), (51, 71556), (54, 71586), (57, 71724), (58, 71727), (73, 71895), (79, 71946), (82, 71994), (84, 72021), (86, 72045), (92, 72093), (93, 72099), (96, 72144), (98, 72153), (99, 72174), (100, 72180), (102, 72198), (105, 72237), (111, 72279), (130, 72471), (131, 72489), (132, 72495), (136, 72516), (137, 72540), (149, 72627), (153, 72669), (156, 72684), (157, 72687), (159, 72690), (162, 72768), (166, 72858), (174, 72960), (179, 73047), (181, 73065), (184, 73089),

Gene: Duckfeet\_126 Start: 70921, Stop: 73179, Start Num: 6

Candidate Starts for Duckfeet\_126:

(Start: 4 @70912 has 52 MA's), (Start: 6 @70921 has 136 MA's), (7, 70960), (9, 71029), (10, 71038), (14, 71134), (16, 71155), (17, 71164), (18, 71185), (21, 71221), (27, 71305), (31, 71314), (43, 71389), (44, 71392), (45, 71413), (47, 71434), (49, 71449), (50, 71458), (51, 71497), (54, 71527), (57, 71665), (58, 71668), (73, 71836), (79, 71887), (82, 71935), (84, 71962), (86, 71986), (92, 72034), (93, 72040), (96, 72085), (98, 72094), (99, 72115), (100, 72121), (102, 72139), (105, 72178), (111, 72220), (128, 72388), (131, 72430), (132, 72436), (136, 72457), (137, 72481), (149, 72568), (153, 72610), (156, 72625), (157, 72628), (159, 72631), (162, 72709), (166, 72799), (174, 72901), (179, 72988), (181, 73006), (184, 73030),

Gene: ET08\_120 Start: 70970, Stop: 73228, Start Num: 6

Candidate Starts for ET08\_120:

(Start: 4 @70961 has 52 MA's), (Start: 6 @70970 has 136 MA's), (7, 71009), (9, 71078), (10, 71087), (14, 71183), (16, 71204), (17, 71213), (18, 71234), (21, 71270), (27, 71354), (31, 71363), (43, 71438), (44, 71441), (45, 71462), (47, 71483), (49, 71498), (50, 71507), (51, 71546), (54, 71576), (57, 71714), (58, 71717), (73, 71885), (79, 71936), (82, 71984), (84, 72011), (86, 72035), (92, 72083), (93, 72089), (96, 72134), (98, 72143), (99, 72164), (100, 72170), (102, 72188), (105, 72227), (111, 72269), (130, 72461), (131, 72479), (132, 72485), (136, 72506), (137, 72530), (149, 72617), (153, 72659), (156, 72674), (157, 72677), (159, 72680), (162, 72758), (166, 72848), (174, 72950), (179, 73037), (181,

73055), (184, 73079),

Gene: EasyJones\_135 Start: 71537, Stop: 73795, Start Num: 6

Candidate Starts for EasyJones\_135:

(Start: 4 @71528 has 52 MA's), (Start: 6 @71537 has 136 MA's), (7, 71576), (9, 71645), (10, 71654), (14, 71750), (16, 71771), (17, 71780), (18, 71801), (21, 71837), (27, 71921), (31, 71930), (43, 72005), (44, 72008), (45, 72029), (47, 72050), (49, 72065), (50, 72074), (51, 72113), (54, 72143), (57, 72281), (58, 72284), (73, 72452), (82, 72551), (84, 72578), (86, 72602), (92, 72650), (93, 72656), (96, 72701), (98, 72710), (99, 72731), (100, 72737), (102, 72755), (105, 72794), (111, 72836), (128, 73004), (131, 73046), (132, 73052), (136, 73073), (137, 73097), (149, 73184), (153, 73226), (156, 73241), (157, 73244), (159, 73247), (162, 73325), (166, 73415), (174, 73517), (179, 73604), (181, 73622), (184, 73646),

Gene: EggyFarm\_140 Start: 74255, Stop: 76513, Start Num: 6

Candidate Starts for EggyFarm\_140:

(Start: 4 @74246 has 52 MA's), (Start: 6 @74255 has 136 MA's), (7, 74294), (9, 74363), (10, 74372), (14, 74468), (16, 74489), (17, 74498), (18, 74519), (21, 74555), (27, 74639), (31, 74648), (43, 74723), (44, 74726), (45, 74747), (47, 74768), (49, 74783), (50, 74792), (51, 74831), (54, 74861), (57, 74999), (58, 75002), (73, 75170), (82, 75269), (84, 75296), (86, 75320), (92, 75368), (93, 75374), (96, 75419), (98, 75428), (99, 75449), (100, 75455), (102, 75473), (105, 75512), (111, 75554), (128, 75722), (131, 75764), (132, 75770), (136, 75791), (137, 75815), (149, 75902), (153, 75944), (157, 75962), (159, 75965), (162, 76043), (166, 76133), (174, 76235), (179, 76322), (181, 76340), (184, 76364),

Gene: EmToTheThree\_134 Start: 73240, Stop: 75507, Start Num: 4

Candidate Starts for EmToTheThree\_134:

(Start: 4 @73240 has 52 MA's), (Start: 6 @73249 has 136 MA's), (7, 73288), (9, 73357), (10, 73366), (14, 73462), (16, 73483), (17, 73492), (18, 73513), (21, 73549), (27, 73633), (31, 73642), (43, 73717), (44, 73720), (45, 73741), (47, 73762), (49, 73777), (50, 73786), (51, 73825), (54, 73855), (57, 73993), (58, 73996), (73, 74164), (82, 74263), (84, 74290), (86, 74314), (92, 74362), (93, 74368), (96, 74413), (98, 74422), (99, 74443), (100, 74449), (102, 74467), (105, 74506), (111, 74548), (128, 74716), (131, 74758), (132, 74764), (136, 74785), (137, 74809), (149, 74896), (153, 74938), (156, 74953), (157, 74956), (159, 74959), (162, 75037), (166, 75127), (174, 75229), (179, 75316), (181, 75334), (184, 75358),

Gene: EmmaElysia\_133 Start: 71515, Stop: 73782, Start Num: 4

Candidate Starts for EmmaElysia\_133:

(Start: 4 @71515 has 52 MA's), (Start: 6 @71524 has 136 MA's), (7, 71563), (9, 71632), (10, 71641), (14, 71737), (16, 71758), (17, 71767), (18, 71788), (21, 71824), (27, 71908), (31, 71917), (43, 71992), (44, 71995), (45, 72016), (47, 72037), (49, 72052), (50, 72061), (51, 72100), (54, 72130), (57, 72268), (58, 72271), (73, 72439), (82, 72538), (84, 72565), (86, 72589), (92, 72637), (93, 72643), (96, 72688), (98, 72697), (99, 72718), (100, 72724), (102, 72742), (105, 72781), (111, 72823), (128, 72991), (131, 73033), (132, 73039), (136, 73060), (137, 73084), (149, 73171), (153, 73213), (156, 73228), (157, 73231), (159, 73234), (162, 73312), (166, 73402), (174, 73504), (179, 73591), (181, 73609), (184, 73633),

Gene: Erdmann\_132 Start: 72298, Stop: 74556, Start Num: 6

Candidate Starts for Erdmann\_132:

(Start: 4 @72289 has 52 MA's), (Start: 6 @72298 has 136 MA's), (7, 72337), (9, 72406), (10, 72415), (14, 72511), (16, 72532), (17, 72541), (18, 72562), (21, 72598), (27, 72682), (31, 72691), (43, 72766), (44, 72769), (45, 72790), (47, 72811), (49, 72826), (50, 72835), (51, 72874), (54, 72904), (57, 73042), (58, 73045), (73, 73213), (82, 73312), (84, 73339), (86, 73363), (92, 73411), (93, 73417), (96, 73462), (98, 73471), (99, 73492), (100, 73498), (102, 73516), (105, 73555), (111, 73597), (128, 73765), (131, 73807), (132, 73813), (136, 73834), (137, 73858), (149, 73945), (153, 73987), (156, 74002), (157,

74005), (159, 74008), (162, 74086), (166, 74176), (174, 74278), (179, 74365), (181, 74383), (184, 74407),

Gene: ErnieJ\_126 Start: 70267, Stop: 72525, Start Num: 6

Candidate Starts for ErnieJ\_126:

(Start: 4 @70258 has 52 MA's), (Start: 6 @70267 has 136 MA's), (7, 70306), (9, 70375), (10, 70384), (14, 70480), (16, 70501), (17, 70510), (18, 70531), (21, 70567), (27, 70651), (31, 70660), (43, 70735), (44, 70738), (45, 70759), (47, 70780), (49, 70795), (50, 70804), (51, 70843), (54, 70873), (57, 71011), (58, 71014), (73, 71182), (79, 71233), (82, 71281), (84, 71308), (86, 71332), (92, 71380), (93, 71386), (96, 71431), (98, 71440), (99, 71461), (100, 71467), (102, 71485), (105, 71524), (111, 71566), (130, 71758), (131, 71776), (132, 71782), (136, 71803), (137, 71827), (149, 71914), (153, 71956), (156, 71971), (157, 71974), (159, 71977), (162, 72055), (166, 72145), (174, 72247), (179, 72334), (181, 72352), (184, 72376),

Gene: Essence\_129 Start: 71137, Stop: 73404, Start Num: 4

Candidate Starts for Essence\_129:

(Start: 4 @71137 has 52 MA's), (Start: 6 @71146 has 136 MA's), (7, 71185), (9, 71254), (10, 71263), (14, 71359), (16, 71380), (17, 71389), (18, 71410), (21, 71446), (27, 71530), (31, 71539), (43, 71614), (44, 71617), (45, 71638), (47, 71659), (49, 71674), (50, 71683), (51, 71722), (54, 71752), (57, 71890), (58, 71893), (73, 72061), (79, 72112), (82, 72160), (84, 72187), (86, 72211), (92, 72259), (93, 72265), (96, 72310), (98, 72319), (99, 72340), (100, 72346), (102, 72364), (105, 72403), (111, 72445), (130, 72637), (131, 72655), (132, 72661), (136, 72682), (137, 72706), (149, 72793), (153, 72835), (156, 72850), (157, 72853), (159, 72856), (162, 72934), (166, 73024), (174, 73126), (179, 73213), (181, 73231), (184, 73255),

Gene: Ewok\_133 Start: 71666, Stop: 73933, Start Num: 4

Candidate Starts for Ewok\_133:

(Start: 4 @71666 has 52 MA's), (Start: 6 @71675 has 136 MA's), (7, 71714), (9, 71783), (10, 71792), (14, 71888), (16, 71909), (17, 71918), (18, 71939), (21, 71975), (27, 72059), (31, 72068), (43, 72143), (44, 72146), (45, 72167), (47, 72188), (49, 72203), (50, 72212), (51, 72251), (54, 72281), (57, 72419), (58, 72422), (73, 72590), (82, 72689), (84, 72716), (86, 72740), (92, 72788), (93, 72794), (96, 72839), (98, 72848), (99, 72869), (100, 72875), (102, 72893), (105, 72932), (111, 72974), (128, 73142), (131, 73184), (132, 73190), (136, 73211), (137, 73235), (149, 73322), (153, 73364), (156, 73379), (157, 73382), (159, 73385), (162, 73463), (166, 73553), (174, 73655), (179, 73742), (181, 73760), (184, 73784),

Gene: Fixie\_130 Start: 71418, Stop: 73676, Start Num: 6

Candidate Starts for Fixie\_130:

(Start: 4 @71409 has 52 MA's), (Start: 6 @71418 has 136 MA's), (7, 71457), (9, 71526), (10, 71535), (14, 71631), (16, 71652), (17, 71661), (18, 71682), (21, 71718), (27, 71802), (31, 71811), (43, 71886), (44, 71889), (45, 71910), (47, 71931), (49, 71946), (50, 71955), (51, 71994), (54, 72024), (57, 72162), (58, 72165), (73, 72333), (79, 72384), (82, 72432), (84, 72459), (86, 72483), (92, 72531), (93, 72537), (96, 72582), (98, 72591), (99, 72612), (100, 72618), (102, 72636), (105, 72675), (111, 72717), (130, 72909), (131, 72927), (132, 72933), (136, 72954), (137, 72978), (149, 73065), (153, 73107), (156, 73122), (157, 73125), (159, 73128), (162, 73206), (166, 73296), (174, 73398), (179, 73485), (181, 73503), (184, 73527),

Gene: Flabslab\_127 Start: 69848, Stop: 72115, Start Num: 4

Candidate Starts for Flabslab\_127:

(Start: 4 @69848 has 52 MA's), (Start: 6 @69857 has 136 MA's), (7, 69896), (9, 69965), (10, 69974), (14, 70070), (16, 70091), (17, 70100), (18, 70121), (21, 70157), (27, 70241), (31, 70250), (43, 70325), (44, 70328), (45, 70349), (47, 70370), (49, 70385), (50, 70394), (51, 70433), (54, 70463), (57, 70601), (58, 70604), (73, 70772), (82, 70871), (84, 70898), (86, 70922), (92, 70970), (93, 70976), (96, 71021),

(98, 71030), (99, 71051), (100, 71057), (102, 71075), (105, 71114), (111, 71156), (128, 71324), (131, 71366), (132, 71372), (136, 71393), (137, 71417), (149, 71504), (153, 71546), (156, 71561), (157, 71564), (159, 71567), (162, 71645), (166, 71735), (174, 71837), (179, 71924), (181, 71942), (184, 71966),

Gene: Fludd\_133 Start: 71314, Stop: 73581, Start Num: 4

Candidate Starts for Fludd\_133:

(Start: 4 @71314 has 52 MA's), (Start: 6 @71323 has 136 MA's), (7, 71362), (9, 71431), (10, 71440), (14, 71536), (16, 71557), (17, 71566), (18, 71587), (21, 71623), (27, 71707), (31, 71716), (43, 71791), (44, 71794), (45, 71815), (47, 71836), (49, 71851), (50, 71860), (51, 71899), (54, 71929), (57, 72067), (58, 72070), (73, 72238), (82, 72337), (84, 72364), (86, 72388), (92, 72436), (93, 72442), (96, 72487), (98, 72496), (99, 72517), (100, 72523), (102, 72541), (105, 72580), (111, 72622), (128, 72790), (131, 72832), (132, 72838), (136, 72859), (137, 72883), (149, 72970), (153, 73012), (156, 73027), (157, 73030), (159, 73033), (162, 73111), (166, 73201), (174, 73303), (179, 73390), (181, 73408), (184, 73432),

Gene: Fongie\_130 Start: 71879, Stop: 74146, Start Num: 4

Candidate Starts for Fongie\_130:

(Start: 4 @71879 has 52 MA's), (Start: 6 @71888 has 136 MA's), (7, 71927), (9, 71996), (10, 72005), (14, 72101), (16, 72122), (17, 72131), (18, 72152), (21, 72188), (27, 72272), (31, 72281), (43, 72356), (44, 72359), (45, 72380), (47, 72401), (49, 72416), (50, 72425), (51, 72464), (54, 72494), (57, 72632), (58, 72635), (73, 72803), (82, 72902), (84, 72929), (86, 72953), (92, 73001), (93, 73007), (96, 73052), (98, 73061), (99, 73082), (100, 73088), (102, 73106), (105, 73145), (111, 73187), (128, 73355), (131, 73397), (132, 73403), (136, 73424), (137, 73448), (149, 73535), (153, 73577), (156, 73592), (157, 73595), (159, 73598), (162, 73676), (166, 73766), (174, 73868), (179, 73955), (181, 73973), (184, 73997),

Gene: FoxtrotP1\_132 Start: 73449, Stop: 75716, Start Num: 4

Candidate Starts for FoxtrotP1\_132:

(Start: 4 @73449 has 52 MA's), (Start: 6 @73458 has 136 MA's), (7, 73497), (9, 73566), (10, 73575), (14, 73671), (16, 73692), (17, 73701), (18, 73722), (21, 73758), (27, 73842), (31, 73851), (43, 73926), (44, 73929), (45, 73950), (47, 73971), (49, 73986), (50, 73995), (51, 74034), (54, 74064), (57, 74202), (58, 74205), (73, 74373), (82, 74472), (84, 74499), (86, 74523), (92, 74571), (93, 74577), (96, 74622), (98, 74631), (99, 74652), (100, 74658), (102, 74676), (105, 74715), (111, 74757), (128, 74925), (131, 74967), (132, 74973), (136, 74994), (137, 75018), (149, 75105), (153, 75147), (156, 75162), (157, 75165), (159, 75168), (162, 75246), (166, 75336), (174, 75438), (179, 75525), (181, 75543), (184, 75567),

Gene: FrayBell\_137 Start: 72613, Stop: 74880, Start Num: 4

Candidate Starts for FrayBell\_137:

(Start: 4 @72613 has 52 MA's), (Start: 6 @72622 has 136 MA's), (7, 72661), (9, 72730), (10, 72739), (14, 72835), (16, 72856), (17, 72865), (18, 72886), (21, 72922), (27, 73006), (31, 73015), (43, 73090), (44, 73093), (45, 73114), (47, 73135), (49, 73150), (50, 73159), (51, 73198), (54, 73228), (57, 73366), (58, 73369), (73, 73537), (82, 73636), (84, 73663), (86, 73687), (92, 73735), (93, 73741), (96, 73786), (98, 73795), (99, 73816), (100, 73822), (102, 73840), (105, 73879), (111, 73921), (128, 74089), (131, 74131), (132, 74137), (136, 74158), (137, 74182), (149, 74269), (153, 74311), (156, 74326), (157, 74329), (159, 74332), (162, 74410), (166, 74500), (174, 74602), (179, 74689), (181, 74707), (184, 74731),

Gene: FudgeTart\_130 Start: 71328, Stop: 73586, Start Num: 6

Candidate Starts for FudgeTart\_130:

(Start: 4 @71319 has 52 MA's), (Start: 6 @71328 has 136 MA's), (7, 71367), (9, 71436), (10, 71445), (14, 71541), (16, 71562), (17, 71571), (18, 71592), (21, 71628), (27, 71712), (31, 71721), (43, 71796),

(44, 71799), (45, 71820), (47, 71841), (49, 71856), (50, 71865), (51, 71904), (54, 71934), (57, 72072), (58, 72075), (73, 72243), (82, 72342), (84, 72369), (86, 72393), (92, 72441), (93, 72447), (96, 72492), (98, 72501), (99, 72522), (100, 72528), (102, 72546), (105, 72585), (111, 72627), (128, 72795), (131, 72837), (132, 72843), (136, 72864), (137, 72888), (149, 72975), (153, 73017), (156, 73032), (157, 73035), (159, 73038), (162, 73116), (166, 73206), (174, 73308), (179, 73395), (181, 73413), (184, 73437),

Gene: Gabriel\_132 Start: 70552, Stop: 72810, Start Num: 6

Candidate Starts for Gabriel\_132:

(Start: 4 @70543 has 52 MA's), (Start: 6 @70552 has 136 MA's), (7, 70591), (9, 70660), (10, 70669), (14, 70765), (16, 70786), (17, 70795), (18, 70816), (21, 70852), (27, 70936), (31, 70945), (43, 71020), (44, 71023), (45, 71044), (47, 71065), (49, 71080), (50, 71089), (51, 71128), (54, 71158), (57, 71296), (58, 71299), (73, 71467), (82, 71566), (84, 71593), (86, 71617), (92, 71665), (93, 71671), (96, 71716), (98, 71725), (99, 71746), (100, 71752), (102, 71770), (105, 71809), (111, 71851), (128, 72019), (131, 72061), (132, 72067), (136, 72088), (137, 72112), (149, 72199), (153, 72241), (156, 72256), (157, 72259), (159, 72262), (162, 72340), (166, 72430), (174, 72532), (179, 72619), (181, 72637), (184, 72661),

Gene: Gamgam\_133 Start: 71295, Stop: 73553, Start Num: 6

Candidate Starts for Gamgam\_133:

(Start: 4 @71286 has 52 MA's), (Start: 6 @71295 has 136 MA's), (7, 71334), (9, 71403), (10, 71412), (14, 71508), (16, 71529), (17, 71538), (18, 71559), (21, 71595), (27, 71679), (31, 71688), (43, 71763), (44, 71766), (45, 71787), (47, 71808), (49, 71823), (50, 71832), (51, 71871), (54, 71901), (57, 72039), (58, 72042), (73, 72210), (79, 72261), (82, 72309), (84, 72336), (86, 72360), (92, 72408), (93, 72414), (96, 72459), (98, 72468), (99, 72489), (100, 72495), (102, 72513), (105, 72552), (111, 72594), (130, 72786), (131, 72804), (132, 72810), (136, 72831), (137, 72855), (149, 72942), (153, 72984), (156, 72999), (157, 73002), (159, 73005), (162, 73083), (166, 73173), (174, 73275), (179, 73362), (181, 73380), (184, 73404),

Gene: Ghost\_131 Start: 71305, Stop: 73563, Start Num: 6

Candidate Starts for Ghost\_131:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Gizmo\_137 Start: 73927, Stop: 76185, Start Num: 6

Candidate Starts for Gizmo\_137:

(Start: 4 @73918 has 52 MA's), (Start: 6 @73927 has 136 MA's), (7, 73966), (9, 74035), (10, 74044), (14, 74140), (16, 74161), (17, 74170), (18, 74191), (21, 74227), (27, 74311), (31, 74320), (43, 74395), (44, 74398), (45, 74419), (47, 74440), (49, 74455), (50, 74464), (51, 74503), (54, 74533), (57, 74671), (58, 74674), (73, 74842), (82, 74941), (84, 74968), (86, 74992), (92, 75040), (93, 75046), (96, 75091), (98, 75100), (99, 75121), (100, 75127), (102, 75145), (105, 75184), (111, 75226), (128, 75394), (131, 75436), (132, 75442), (136, 75463), (137, 75487), (149, 75574), (153, 75616), (156, 75631), (157, 75634), (159, 75637), (162, 75715), (166, 75805), (174, 75907), (179, 75994), (181, 76012), (184, 76036),

Gene: GlutenPhree\_134 Start: 71305, Stop: 73563, Start Num: 6

Candidate Starts for GlutenPhree\_134:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Grasshills\_139 Start: 74255, Stop: 76513, Start Num: 6

Candidate Starts for Grasshills\_139:

(Start: 4 @74246 has 52 MA's), (Start: 6 @74255 has 136 MA's), (7, 74294), (9, 74363), (10, 74372), (14, 74468), (16, 74489), (17, 74498), (18, 74519), (21, 74555), (27, 74639), (31, 74648), (43, 74723), (44, 74726), (45, 74747), (47, 74768), (49, 74783), (50, 74792), (51, 74831), (54, 74861), (57, 74999), (58, 75002), (73, 75170), (82, 75269), (84, 75296), (86, 75320), (92, 75368), (93, 75374), (96, 75419), (98, 75428), (99, 75449), (100, 75455), (102, 75473), (105, 75512), (111, 75554), (128, 75722), (131, 75764), (132, 75770), (136, 75791), (137, 75815), (149, 75902), (153, 75944), (157, 75962), (159, 75965), (162, 76043), (166, 76133), (174, 76235), (179, 76322), (181, 76340), (184, 76364),

Gene: Greely\_131 Start: 72598, Stop: 74934, Start Num: 6

Candidate Starts for Greely\_131:

(Start: 4 @72589 has 52 MA's), (Start: 6 @72598 has 136 MA's), (8, 72694), (9, 72706), (11, 72721), (13, 72778), (15, 72820), (17, 72841), (21, 72901), (25, 72967), (33, 73000), (35, 73015), (37, 73027), (38, 73036), (40, 73039), (41, 73042), (43, 73069), (51, 73171), (54, 73201), (59, 73363), (60, 73369), (75, 73588), (79, 73624), (83, 73690), (85, 73711), (87, 73726), (88, 73732), (92, 73771), (95, 73819), (97, 73828), (98, 73831), (99, 73852), (100, 73858), (102, 73876), (109, 73939), (114, 73981), (123, 74038), (133, 74173), (137, 74215), (141, 74230), (147, 74293), (151, 74344), (152, 74347), (168, 74557), (186, 74848), (188, 74863),

Gene: Grungle\_119 Start: 68570, Stop: 70828, Start Num: 6

Candidate Starts for Grungle\_119:

(Start: 4 @68561 has 52 MA's), (Start: 6 @68570 has 136 MA's), (7, 68609), (9, 68678), (10, 68687), (14, 68783), (16, 68804), (17, 68813), (18, 68834), (21, 68870), (27, 68954), (31, 68963), (43, 69038), (44, 69041), (45, 69062), (47, 69083), (49, 69098), (50, 69107), (51, 69146), (54, 69176), (57, 69314), (58, 69317), (73, 69485), (79, 69536), (82, 69584), (84, 69611), (86, 69635), (92, 69683), (93, 69689), (96, 69734), (98, 69743), (99, 69764), (100, 69770), (102, 69788), (105, 69827), (111, 69869), (130, 70061), (131, 70079), (132, 70085), (136, 70106), (137, 70130), (149, 70217), (153, 70259), (156, 70274), (157, 70277), (159, 70280), (162, 70358), (166, 70448), (174, 70550), (179, 70637), (181, 70655), (184, 70679),

Gene: Guwapp\_131 Start: 70717, Stop: 72975, Start Num: 6

Candidate Starts for Guwapp\_131:

(Start: 4 @70708 has 52 MA's), (Start: 6 @70717 has 136 MA's), (7, 70756), (9, 70825), (10, 70834), (14, 70930), (16, 70951), (17, 70960), (18, 70981), (21, 71017), (27, 71101), (31, 71110), (43, 71185), (44, 71188), (45, 71209), (47, 71230), (49, 71245), (50, 71254), (51, 71293), (54, 71323), (57, 71461), (58, 71464), (73, 71632), (79, 71683), (82, 71731), (84, 71758), (86, 71782), (92, 71830), (93, 71836), (96, 71881), (98, 71890), (99, 71911), (100, 71917), (102, 71935), (105, 71974), (111, 72016), (130, 72208), (131, 72226), (132, 72232), (136, 72253), (137, 72277), (149, 72364), (153, 72406), (156, 72421), (157, 72424), (159, 72427), (162, 72505), (166, 72595), (174, 72697), (179, 72784), (181, 72802), (184, 72826),

Gene: Halldule\_126 Start: 69587, Stop: 71854, Start Num: 4

Candidate Starts for Halldule\_126:

(Start: 4 @69587 has 52 MA's), (Start: 6 @69596 has 136 MA's), (7, 69635), (9, 69704), (10, 69713), (14, 69809), (16, 69830), (17, 69839), (18, 69860), (21, 69896), (27, 69980), (31, 69989), (43, 70064), (44, 70067), (45, 70088), (47, 70109), (49, 70124), (50, 70133), (51, 70172), (54, 70202), (57, 70340), (58, 70343), (73, 70511), (79, 70562), (82, 70610), (84, 70637), (86, 70661), (92, 70709), (93, 70715), (96, 70760), (98, 70769), (99, 70790), (100, 70796), (102, 70814), (105, 70853), (111, 70895), (130, 71087), (131, 71105), (132, 71111), (136, 71132), (137, 71156), (149, 71243), (153, 71285), (156, 71300), (157, 71303), (159, 71306), (162, 71384), (166, 71474), (174, 71576), (179, 71663), (181, 71681), (184, 71705),

Gene: HyRo\_123 Start: 71248, Stop: 73506, Start Num: 6

Candidate Starts for HyRo\_123:

(Start: 4 @71239 has 52 MA's), (Start: 6 @71248 has 136 MA's), (7, 71287), (9, 71356), (10, 71365), (14, 71461), (16, 71482), (17, 71491), (18, 71512), (21, 71548), (27, 71632), (31, 71641), (43, 71716), (44, 71719), (45, 71740), (47, 71761), (49, 71776), (50, 71785), (51, 71824), (54, 71854), (57, 71992), (58, 71995), (73, 72163), (82, 72262), (84, 72289), (86, 72313), (92, 72361), (93, 72367), (96, 72412), (98, 72421), (99, 72442), (100, 72448), (102, 72466), (105, 72505), (111, 72547), (128, 72715), (131, 72757), (132, 72763), (136, 72784), (137, 72808), (149, 72895), (153, 72937), (156, 72952), (157, 72955), (159, 72958), (162, 73036), (166, 73126), (174, 73228), (179, 73315), (181, 73333), (184, 73357),

Gene: I3\_137 Start: 72783, Stop: 75041, Start Num: 6

Candidate Starts for I3\_137:

(Start: 4 @72774 has 52 MA's), (Start: 6 @72783 has 136 MA's), (7, 72822), (9, 72891), (10, 72900), (14, 72996), (16, 73017), (17, 73026), (18, 73047), (21, 73083), (27, 73167), (31, 73176), (43, 73251), (44, 73254), (45, 73275), (47, 73296), (49, 73311), (50, 73320), (51, 73359), (54, 73389), (57, 73527), (58, 73530), (73, 73698), (82, 73797), (84, 73824), (86, 73848), (92, 73896), (93, 73902), (96, 73947), (98, 73956), (99, 73977), (100, 73983), (102, 74001), (105, 74040), (111, 74082), (128, 74250), (131, 74292), (132, 74298), (136, 74319), (137, 74343), (149, 74430), (153, 74472), (156, 74487), (157, 74490), (159, 74493), (162, 74571), (166, 74661), (174, 74763), (179, 74850), (181, 74868), (184, 74892),

Gene: IkeLoa\_126 Start: 71203, Stop: 73461, Start Num: 6

Candidate Starts for IkeLoa\_126:

(Start: 4 @71194 has 52 MA's), (Start: 6 @71203 has 136 MA's), (7, 71242), (9, 71311), (10, 71320), (14, 71416), (16, 71437), (17, 71446), (18, 71467), (21, 71503), (27, 71587), (31, 71596), (43, 71671), (44, 71674), (45, 71695), (47, 71716), (49, 71731), (50, 71740), (51, 71779), (54, 71809), (57, 71947), (58, 71950), (73, 72118), (82, 72217), (84, 72244), (86, 72268), (92, 72316), (93, 72322), (96, 72367), (98, 72376), (99, 72397), (100, 72403), (102, 72421), (105, 72460), (111, 72502), (128, 72670), (131, 72712), (132, 72718), (136, 72739), (137, 72763), (149, 72850), (153, 72892), (156, 72907), (157, 72910), (159, 72913), (162, 72991), (166, 73081), (174, 73183), (179, 73270), (181, 73288), (184, 73312),

Gene: InigoMontoya\_135 Start: 71266, Stop: 73524, Start Num: 6

Candidate Starts for InigoMontoya\_135:

(Start: 4 @71257 has 52 MA's), (Start: 6 @71266 has 136 MA's), (7, 71305), (9, 71374), (10, 71383), (14, 71479), (16, 71500), (17, 71509), (18, 71530), (21, 71566), (27, 71650), (31, 71659), (43, 71734), (44, 71737), (45, 71758), (47, 71779), (49, 71794), (50, 71803), (51, 71842), (54, 71872), (57, 72010), (58, 72013), (73, 72181), (79, 72232), (82, 72280), (84, 72307), (86, 72331), (92, 72379), (93, 72385), (96, 72430), (98, 72439), (99, 72460), (100, 72466), (102, 72484), (105, 72523), (111, 72565), (130, 72757), (131, 72775), (132, 72781), (136, 72802), (137, 72826), (149, 72913), (153, 72955), (156, 72970), (157, 72973), (159, 72976), (162, 73054), (166, 73144), (174, 73246), (179, 73333), (181, 73351), (184, 73375),

Gene: InterFolia\_138 Start: 73548, Stop: 75815, Start Num: 4

Candidate Starts for InterFolia\_138:

(Start: 4 @73548 has 52 MA's), (Start: 6 @73557 has 136 MA's), (7, 73596), (9, 73665), (10, 73674), (14, 73770), (16, 73791), (17, 73800), (18, 73821), (21, 73857), (27, 73941), (31, 73950), (43, 74025), (44, 74028), (45, 74049), (47, 74070), (49, 74085), (50, 74094), (51, 74133), (54, 74163), (57, 74301), (58, 74304), (73, 74472), (79, 74523), (82, 74571), (84, 74598), (86, 74622), (92, 74670), (93, 74676), (96, 74721), (98, 74730), (99, 74751), (100, 74757), (102, 74775), (105, 74814), (111, 74856), (130, 75048), (131, 75066), (132, 75072), (136, 75093), (137, 75117), (149, 75204), (153, 75246), (156, 75261), (157, 75264), (159, 75267), (162, 75345), (166, 75435), (174, 75537), (179, 75624), (181, 75642), (184, 75666),

Gene: Iota\_127 Start: 71245, Stop: 73512, Start Num: 4

Candidate Starts for Iota\_127:

(Start: 4 @71245 has 52 MA's), (Start: 6 @71254 has 136 MA's), (7, 71293), (9, 71362), (10, 71371), (14, 71467), (16, 71488), (17, 71497), (18, 71518), (21, 71554), (27, 71638), (31, 71647), (43, 71722), (44, 71725), (45, 71746), (47, 71767), (49, 71782), (50, 71791), (51, 71830), (54, 71860), (57, 71998), (58, 72001), (73, 72169), (82, 72268), (84, 72295), (86, 72319), (92, 72367), (93, 72373), (96, 72418), (98, 72427), (99, 72448), (100, 72454), (102, 72472), (105, 72511), (111, 72553), (128, 72721), (131, 72763), (132, 72769), (136, 72790), (137, 72814), (149, 72901), (153, 72943), (156, 72958), (157, 72961), (159, 72964), (162, 73042), (166, 73132), (174, 73234), (179, 73321), (181, 73339), (184, 73363),

Gene: Issimir\_130 Start: 72262, Stop: 74520, Start Num: 6

Candidate Starts for Issimir\_130:

(Start: 4 @72253 has 52 MA's), (Start: 6 @72262 has 136 MA's), (7, 72301), (9, 72370), (10, 72379), (14, 72475), (16, 72496), (17, 72505), (18, 72526), (21, 72562), (27, 72646), (31, 72655), (43, 72730), (44, 72733), (45, 72754), (47, 72775), (49, 72790), (50, 72799), (51, 72838), (54, 72868), (57, 73006), (58, 73009), (73, 73177), (79, 73228), (82, 73276), (84, 73303), (86, 73327), (92, 73375), (93, 73381), (96, 73426), (98, 73435), (99, 73456), (100, 73462), (102, 73480), (105, 73519), (111, 73561), (130, 73753), (131, 73771), (132, 73777), (136, 73798), (137, 73822), (149, 73909), (153, 73951), (156, 73966), (157, 73969), (159, 73972), (162, 74050), (166, 74140), (174, 74242), (179, 74329), (181, 74347), (184, 74371),

Gene: Izajani\_132 Start: 72468, Stop: 74726, Start Num: 6

Candidate Starts for Izajani\_132:

(Start: 4 @72459 has 52 MA's), (Start: 6 @72468 has 136 MA's), (7, 72507), (9, 72576), (10, 72585), (14, 72681), (16, 72702), (17, 72711), (18, 72732), (21, 72768), (27, 72852), (31, 72861), (43, 72936), (44, 72939), (45, 72960), (47, 72981), (49, 72996), (50, 73005), (51, 73044), (54, 73074), (57, 73212), (58, 73215), (73, 73383), (82, 73482), (84, 73509), (86, 73533), (92, 73581), (93, 73587), (96, 73632), (98, 73641), (99, 73662), (100, 73668), (102, 73686), (105, 73725), (111, 73767), (128, 73935), (131, 73977), (132, 73983), (136, 74004), (137, 74028), (149, 74115), (153, 74157), (156, 74172), (157, 74175), (159, 74178), (162, 74256), (166, 74346), (174, 74448), (179, 74535), (181, 74553), (184, 74577),

Gene: JPickles\_129 Start: 70057, Stop: 72315, Start Num: 6

Candidate Starts for JPickles\_129:

(Start: 4 @70048 has 52 MA's), (Start: 6 @70057 has 136 MA's), (7, 70096), (9, 70165), (10, 70174), (14, 70270), (16, 70291), (17, 70300), (18, 70321), (21, 70357), (27, 70441), (31, 70450), (43, 70525), (44, 70528), (45, 70549), (47, 70570), (49, 70585), (50, 70594), (51, 70633), (54, 70663), (57, 70801), (58, 70804), (73, 70972), (79, 71023), (82, 71071), (84, 71098), (86, 71122), (92, 71170), (93, 71176), (96, 71221), (98, 71230), (99, 71251), (100, 71257), (102, 71275), (105, 71314), (111, 71356), (130, 71548), (131, 71566), (132, 71572), (136, 71593), (137, 71617), (149, 71704), (153, 71746), (156, 71761), (157, 71764), (159, 71767), (162, 71845), (166, 71935), (174, 72037), (179, 72124), (181,

72142), (184, 72166),

Gene: Janiyra\_135 Start: 72232, Stop: 74490, Start Num: 6

Candidate Starts for Janiyra\_135:

(Start: 4 @72223 has 52 MA's), (Start: 6 @72232 has 136 MA's), (7, 72271), (9, 72340), (10, 72349), (14, 72445), (16, 72466), (17, 72475), (18, 72496), (21, 72532), (27, 72616), (31, 72625), (43, 72700), (44, 72703), (45, 72724), (47, 72745), (49, 72760), (50, 72769), (51, 72808), (54, 72838), (57, 72976), (58, 72979), (73, 73147), (79, 73198), (82, 73246), (84, 73273), (86, 73297), (92, 73345), (93, 73351), (96, 73396), (98, 73405), (99, 73426), (100, 73432), (102, 73450), (105, 73489), (111, 73531), (130, 73723), (131, 73741), (132, 73747), (136, 73768), (137, 73792), (149, 73879), (153, 73921), (156, 73936), (157, 73939), (159, 73942), (162, 74020), (166, 74110), (174, 74212), (179, 74299), (181, 74317), (184, 74341),

Gene: JayJay\_137 Start: 73263, Stop: 75521, Start Num: 6

Candidate Starts for JayJay\_137:

(Start: 4 @73254 has 52 MA's), (Start: 6 @73263 has 136 MA's), (7, 73302), (9, 73371), (10, 73380), (14, 73476), (16, 73497), (17, 73506), (18, 73527), (21, 73563), (27, 73647), (31, 73656), (43, 73731), (44, 73734), (45, 73755), (47, 73776), (49, 73791), (50, 73800), (51, 73839), (54, 73869), (57, 74007), (58, 74010), (73, 74178), (82, 74277), (84, 74304), (86, 74328), (92, 74376), (93, 74382), (96, 74427), (98, 74436), (99, 74457), (100, 74463), (102, 74481), (105, 74520), (111, 74562), (128, 74730), (131, 74772), (132, 74778), (136, 74799), (137, 74823), (149, 74910), (153, 74952), (156, 74967), (157, 74970), (159, 74973), (162, 75051), (166, 75141), (174, 75243), (179, 75330), (181, 75348), (184, 75372),

Gene: Jaygup\_132 Start: 71582, Stop: 73840, Start Num: 6

Candidate Starts for Jaygup\_132:

(Start: 4 @71573 has 52 MA's), (Start: 6 @71582 has 136 MA's), (7, 71621), (9, 71690), (10, 71699), (14, 71795), (16, 71816), (17, 71825), (18, 71846), (21, 71882), (27, 71966), (31, 71975), (43, 72050), (44, 72053), (45, 72074), (47, 72095), (49, 72110), (50, 72119), (51, 72158), (54, 72188), (57, 72326), (58, 72329), (73, 72497), (79, 72548), (82, 72596), (84, 72623), (86, 72647), (92, 72695), (93, 72701), (96, 72746), (98, 72755), (99, 72776), (100, 72782), (102, 72800), (105, 72839), (111, 72881), (130, 73073), (131, 73091), (132, 73097), (136, 73118), (137, 73142), (149, 73229), (153, 73271), (156, 73286), (157, 73289), (159, 73292), (162, 73370), (166, 73460), (174, 73562), (179, 73649), (181, 73667), (184, 73691),

Gene: Jedediah\_135 Start: 72115, Stop: 74373, Start Num: 6

Candidate Starts for Jedediah\_135:

(Start: 4 @72106 has 52 MA's), (Start: 6 @72115 has 136 MA's), (7, 72154), (9, 72223), (10, 72232), (14, 72328), (16, 72349), (17, 72358), (18, 72379), (21, 72415), (27, 72499), (31, 72508), (43, 72583), (44, 72586), (45, 72607), (47, 72628), (49, 72643), (50, 72652), (51, 72691), (54, 72721), (57, 72859), (58, 72862), (73, 73030), (79, 73081), (82, 73129), (84, 73156), (86, 73180), (92, 73228), (93, 73234), (96, 73279), (98, 73288), (99, 73309), (100, 73315), (102, 73333), (105, 73372), (111, 73414), (130, 73606), (131, 73624), (132, 73630), (136, 73651), (137, 73675), (149, 73762), (153, 73804), (156, 73819), (157, 73822), (159, 73825), (162, 73903), (166, 73993), (174, 74095), (179, 74182), (181, 74200), (184, 74224),

Gene: Jemmno\_132 Start: 71562, Stop: 73820, Start Num: 6

Candidate Starts for Jemmno\_132:

(Start: 4 @71553 has 52 MA's), (Start: 6 @71562 has 136 MA's), (7, 71601), (9, 71670), (10, 71679), (14, 71775), (16, 71796), (17, 71805), (18, 71826), (21, 71862), (27, 71946), (31, 71955), (43, 72030), (44, 72033), (45, 72054), (47, 72075), (49, 72090), (50, 72099), (51, 72138), (54, 72168), (57, 72306), (58, 72309), (73, 72477), (79, 72528), (82, 72576), (84, 72603), (86, 72627), (92, 72675), (93, 72681), (96, 72726), (98, 72735), (99, 72756), (100, 72762), (102, 72780), (105, 72819), (111, 72861), (130,

73053), (131, 73071), (132, 73077), (136, 73098), (137, 73122), (149, 73209), (153, 73251), (156, 73266), (157, 73269), (159, 73272), (162, 73350), (166, 73440), (174, 73542), (179, 73629), (181, 73647), (184, 73671),

Gene: Jessibeth14\_131 Start: 72094, Stop: 74352, Start Num: 6

Candidate Starts for Jessibeth14\_131:

(Start: 4 @72085 has 52 MA's), (Start: 6 @72094 has 136 MA's), (7, 72133), (9, 72202), (10, 72211), (14, 72307), (16, 72328), (17, 72337), (18, 72358), (21, 72394), (27, 72478), (31, 72487), (43, 72562), (44, 72565), (45, 72586), (47, 72607), (49, 72622), (50, 72631), (51, 72670), (54, 72700), (57, 72838), (58, 72841), (73, 73009), (82, 73108), (84, 73135), (86, 73159), (92, 73207), (93, 73213), (96, 73258), (98, 73267), (99, 73288), (100, 73294), (102, 73312), (105, 73351), (111, 73393), (128, 73561), (131, 73603), (132, 73609), (136, 73630), (137, 73654), (149, 73741), (153, 73783), (156, 73798), (157, 73801), (159, 73804), (162, 73882), (166, 73972), (174, 74074), (179, 74161), (181, 74179), (184, 74203),

Gene: Jezreel\_132 Start: 72248, Stop: 74506, Start Num: 6

Candidate Starts for Jezreel\_132:

(Start: 4 @72239 has 52 MA's), (Start: 6 @72248 has 136 MA's), (7, 72287), (9, 72356), (10, 72365), (14, 72461), (16, 72482), (17, 72491), (18, 72512), (21, 72548), (27, 72632), (31, 72641), (43, 72716), (44, 72719), (45, 72740), (47, 72761), (49, 72776), (50, 72785), (51, 72824), (54, 72854), (57, 72992), (58, 72995), (73, 73163), (82, 73262), (84, 73289), (86, 73313), (92, 73361), (93, 73367), (96, 73412), (98, 73421), (99, 73442), (100, 73448), (102, 73466), (105, 73505), (111, 73547), (128, 73715), (131, 73757), (132, 73763), (136, 73784), (137, 73808), (149, 73895), (153, 73937), (156, 73952), (157, 73955), (159, 73958), (162, 74036), (166, 74126), (174, 74228), (179, 74315), (181, 74333), (184, 74357),

Gene: JigglyPuff\_140 Start: 74412, Stop: 76670, Start Num: 6

Candidate Starts for JigglyPuff\_140:

(Start: 4 @74403 has 52 MA's), (Start: 6 @74412 has 136 MA's), (7, 74451), (9, 74520), (10, 74529), (14, 74625), (16, 74646), (17, 74655), (18, 74676), (21, 74712), (27, 74796), (31, 74805), (43, 74880), (44, 74883), (45, 74904), (47, 74925), (49, 74940), (50, 74949), (51, 74988), (54, 75018), (57, 75156), (58, 75159), (73, 75327), (79, 75378), (82, 75426), (84, 75453), (86, 75477), (92, 75525), (93, 75531), (96, 75576), (98, 75585), (99, 75606), (100, 75612), (102, 75630), (105, 75669), (111, 75711), (128, 75879), (131, 75921), (132, 75927), (136, 75948), (137, 75972), (149, 76059), (153, 76101), (156, 76116), (157, 76119), (159, 76122), (162, 76200), (166, 76290), (174, 76392), (179, 76479), (181, 76497), (184, 76521),

Gene: JulietS\_126 Start: 69449, Stop: 71707, Start Num: 6

Candidate Starts for JulietS\_126:

(Start: 4 @69440 has 52 MA's), (Start: 6 @69449 has 136 MA's), (7, 69488), (9, 69557), (10, 69566), (14, 69662), (16, 69683), (17, 69692), (18, 69713), (21, 69749), (27, 69833), (31, 69842), (43, 69917), (44, 69920), (45, 69941), (47, 69962), (49, 69977), (50, 69986), (51, 70025), (54, 70055), (57, 70193), (58, 70196), (73, 70364), (79, 70415), (82, 70463), (84, 70490), (86, 70514), (92, 70562), (93, 70568), (96, 70613), (98, 70622), (99, 70643), (100, 70649), (102, 70667), (105, 70706), (111, 70748), (128, 70916), (131, 70958), (132, 70964), (136, 70985), (137, 71009), (149, 71096), (153, 71138), (156, 71153), (157, 71156), (159, 71159), (162, 71237), (166, 71327), (174, 71429), (179, 71516), (181, 71534), (184, 71558),

Gene: JustHall\_130 Start: 72081, Stop: 74348, Start Num: 4

Candidate Starts for JustHall\_130:

(Start: 4 @72081 has 52 MA's), (Start: 6 @72090 has 136 MA's), (7, 72129), (9, 72198), (10, 72207), (14, 72303), (16, 72324), (17, 72333), (18, 72354), (21, 72390), (27, 72474), (31, 72483), (43, 72558), (44, 72561), (45, 72582), (47, 72603), (49, 72618), (50, 72627), (51, 72666), (54, 72696), (57, 72834),

(58, 72837), (73, 73005), (79, 73056), (82, 73104), (84, 73131), (86, 73155), (92, 73203), (93, 73209), (96, 73254), (98, 73263), (99, 73284), (100, 73290), (102, 73308), (105, 73347), (111, 73389), (130, 73581), (131, 73599), (132, 73605), (136, 73626), (137, 73650), (149, 73737), (153, 73779), (156, 73794), (157, 73797), (159, 73800), (162, 73878), (166, 73968), (174, 74070), (179, 74157), (181, 74175), (184, 74199),

Gene: Kamryn\_132 Start: 72891, Stop: 75158, Start Num: 4

Candidate Starts for Kamryn\_132:

(Start: 4 @72891 has 52 MA's), (Start: 6 @72900 has 136 MA's), (7, 72939), (9, 73008), (10, 73017), (14, 73113), (16, 73134), (17, 73143), (18, 73164), (21, 73200), (27, 73284), (31, 73293), (43, 73368), (44, 73371), (45, 73392), (47, 73413), (49, 73428), (50, 73437), (51, 73476), (54, 73506), (57, 73644), (58, 73647), (73, 73815), (82, 73914), (84, 73941), (86, 73965), (92, 74013), (93, 74019), (96, 74064), (98, 74073), (99, 74094), (100, 74100), (102, 74118), (105, 74157), (111, 74199), (128, 74367), (131, 74409), (132, 74415), (136, 74436), (137, 74460), (149, 74547), (153, 74589), (156, 74604), (157, 74607), (159, 74610), (162, 74688), (166, 74778), (174, 74880), (179, 74967), (181, 74985), (184, 75009),

Gene: Kboogie\_136 Start: 71255, Stop: 73513, Start Num: 6

Candidate Starts for Kboogie\_136:

(Start: 4 @71246 has 52 MA's), (Start: 6 @71255 has 136 MA's), (7, 71294), (9, 71363), (10, 71372), (14, 71468), (16, 71489), (17, 71498), (18, 71519), (21, 71555), (27, 71639), (31, 71648), (43, 71723), (44, 71726), (45, 71747), (47, 71768), (49, 71783), (50, 71792), (51, 71831), (54, 71861), (57, 71999), (58, 72002), (73, 72170), (79, 72221), (82, 72269), (84, 72296), (86, 72320), (92, 72368), (93, 72374), (96, 72419), (98, 72428), (99, 72449), (100, 72455), (102, 72473), (105, 72512), (111, 72554), (130, 72746), (131, 72764), (132, 72770), (136, 72791), (137, 72815), (149, 72902), (153, 72944), (156, 72959), (157, 72962), (159, 72965), (162, 73043), (166, 73133), (174, 73235), (179, 73322), (181, 73340), (184, 73364),

Gene: Khaleesi\_131 Start: 72197, Stop: 74455, Start Num: 6

Candidate Starts for Khaleesi\_131:

(Start: 4 @72188 has 52 MA's), (Start: 6 @72197 has 136 MA's), (7, 72236), (9, 72305), (10, 72314), (14, 72410), (16, 72431), (17, 72440), (18, 72461), (21, 72497), (27, 72581), (31, 72590), (43, 72665), (44, 72668), (45, 72689), (47, 72710), (49, 72725), (50, 72734), (51, 72773), (54, 72803), (57, 72941), (58, 72944), (73, 73112), (82, 73211), (84, 73238), (86, 73262), (92, 73310), (93, 73316), (96, 73361), (98, 73370), (99, 73391), (100, 73397), (102, 73415), (105, 73454), (111, 73496), (128, 73664), (131, 73706), (132, 73712), (136, 73733), (137, 73757), (149, 73844), (153, 73886), (156, 73901), (157, 73904), (159, 73907), (162, 73985), (166, 74075), (174, 74177), (179, 74264), (181, 74282), (184, 74306),

Gene: Koguma\_129 Start: 69732, Stop: 71990, Start Num: 6

Candidate Starts for Koguma\_129:

(Start: 4 @69723 has 52 MA's), (Start: 6 @69732 has 136 MA's), (7, 69771), (9, 69840), (10, 69849), (14, 69945), (16, 69966), (17, 69975), (18, 69996), (21, 70032), (27, 70116), (31, 70125), (43, 70200), (44, 70203), (45, 70224), (47, 70245), (49, 70260), (50, 70269), (51, 70308), (54, 70338), (57, 70476), (58, 70479), (73, 70647), (79, 70698), (82, 70746), (84, 70773), (86, 70797), (92, 70845), (93, 70851), (96, 70896), (98, 70905), (99, 70926), (100, 70932), (102, 70950), (105, 70989), (111, 71031), (130, 71223), (131, 71241), (132, 71247), (136, 71268), (137, 71292), (149, 71379), (153, 71421), (156, 71436), (157, 71439), (159, 71442), (162, 71520), (166, 71610), (174, 71712), (179, 71799), (181, 71817), (184, 71841),

Gene: LRRHood\_125 Start: 71540, Stop: 73798, Start Num: 6

Candidate Starts for LRRHood\_125:

(Start: 4 @71531 has 52 MA's), (Start: 6 @71540 has 136 MA's), (7, 71579), (9, 71648), (10, 71657), (14, 71753), (16, 71774), (17, 71783), (18, 71804), (21, 71840), (27, 71924), (31, 71933), (43, 72008), (44, 72011), (45, 72032), (47, 72053), (49, 72068), (50, 72077), (51, 72116), (54, 72146), (57, 72284), (58, 72287), (73, 72455), (79, 72506), (82, 72554), (84, 72581), (86, 72605), (92, 72653), (93, 72659), (96, 72704), (98, 72713), (99, 72734), (100, 72740), (102, 72758), (105, 72797), (111, 72839), (130, 73031), (131, 73049), (132, 73055), (136, 73076), (137, 73100), (149, 73187), (153, 73229), (156, 73244), (157, 73247), (159, 73250), (162, 73328), (166, 73418), (174, 73520), (179, 73607), (181, 73625), (184, 73649),

Gene: Labradorite\_131 Start: 70269, Stop: 72527, Start Num: 6

Candidate Starts for Labradorite\_131:

(Start: 4 @70260 has 52 MA's), (Start: 6 @70269 has 136 MA's), (7, 70308), (9, 70377), (10, 70386), (14, 70482), (16, 70503), (17, 70512), (18, 70533), (21, 70569), (27, 70653), (31, 70662), (43, 70737), (44, 70740), (45, 70761), (47, 70782), (49, 70797), (50, 70806), (51, 70845), (54, 70875), (57, 71013), (58, 71016), (73, 71184), (79, 71235), (82, 71283), (84, 71310), (86, 71334), (92, 71382), (93, 71388), (96, 71433), (98, 71442), (99, 71463), (100, 71469), (102, 71487), (105, 71526), (111, 71568), (130, 71760), (131, 71778), (132, 71784), (136, 71805), (137, 71829), (149, 71916), (153, 71958), (156, 71973), (157, 71976), (159, 71979), (162, 72057), (166, 72147), (174, 72249), (179, 72336), (181, 72354), (184, 72378),

Gene: Latch\_133 Start: 71305, Stop: 73563, Start Num: 6

Candidate Starts for Latch\_133:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Lee7\_130 Start: 72821, Stop: 75079, Start Num: 6

Candidate Starts for Lee7\_130:

(Start: 4 @72812 has 52 MA's), (Start: 6 @72821 has 136 MA's), (7, 72860), (9, 72929), (10, 72938), (14, 73034), (16, 73055), (17, 73064), (18, 73085), (21, 73121), (27, 73205), (31, 73214), (43, 73289), (44, 73292), (45, 73313), (47, 73334), (49, 73349), (50, 73358), (51, 73397), (54, 73427), (57, 73565), (58, 73568), (73, 73736), (82, 73835), (84, 73862), (86, 73886), (92, 73934), (93, 73940), (96, 73985), (98, 73994), (99, 74015), (100, 74021), (102, 74039), (105, 74078), (111, 74120), (128, 74288), (131, 74330), (132, 74336), (136, 74357), (137, 74381), (149, 74468), (153, 74510), (156, 74525), (157, 74528), (159, 74531), (162, 74609), (166, 74699), (174, 74801), (179, 74888), (181, 74906), (184, 74930),

Gene: Lethe\_130 Start: 72259, Stop: 74517, Start Num: 6

Candidate Starts for Lethe\_130:

(Start: 4 @72250 has 52 MA's), (Start: 6 @72259 has 136 MA's), (7, 72298), (9, 72367), (10, 72376), (14, 72472), (16, 72493), (17, 72502), (18, 72523), (21, 72559), (27, 72643), (31, 72652), (43, 72727), (44, 72730), (45, 72751), (47, 72772), (49, 72787), (50, 72796), (51, 72835), (54, 72865), (57, 73003), (58, 73006), (73, 73174), (82, 73273), (84, 73300), (86, 73324), (92, 73372), (93, 73378), (96, 73423), (98, 73432), (99, 73453), (100, 73459), (102, 73477), (105, 73516), (111, 73558), (128, 73726), (131, 73768), (132, 73774), (136, 73795), (137, 73819), (149, 73906), (153, 73948), (156, 73963), (157, 73966), (159, 73969), (162, 74047), (166, 74137), (174, 74239), (179, 74326), (181, 74344), (184, 74368),

Gene: LifeSavor\_130 Start: 71514, Stop: 73772, Start Num: 6

Candidate Starts for LifeSavor\_130:

(Start: 4 @71505 has 52 MA's), (Start: 6 @71514 has 136 MA's), (7, 71553), (9, 71622), (10, 71631), (14, 71727), (16, 71748), (17, 71757), (18, 71778), (21, 71814), (27, 71898), (31, 71907), (43, 71982), (44, 71985), (45, 72006), (47, 72027), (49, 72042), (50, 72051), (51, 72090), (54, 72120), (57, 72258), (58, 72261), (73, 72429), (79, 72480), (82, 72528), (84, 72555), (86, 72579), (92, 72627), (93, 72633), (96, 72678), (98, 72687), (99, 72708), (100, 72714), (102, 72732), (105, 72771), (111, 72813), (130, 73005), (131, 73023), (132, 73029), (136, 73050), (137, 73074), (149, 73161), (153, 73203), (156, 73218), (157, 73221), (159, 73224), (162, 73302), (166, 73392), (174, 73494), (179, 73581), (181, 73599), (184, 73623),

Gene: LinStu\_130 Start: 72149, Stop: 74407, Start Num: 6

Candidate Starts for LinStu\_130:

(Start: 4 @72140 has 52 MA's), (Start: 6 @72149 has 136 MA's), (7, 72188), (9, 72257), (10, 72266), (14, 72362), (16, 72383), (17, 72392), (18, 72413), (21, 72449), (27, 72533), (31, 72542), (43, 72617), (44, 72620), (45, 72641), (47, 72662), (49, 72677), (50, 72686), (51, 72725), (54, 72755), (57, 72893), (58, 72896), (73, 73064), (82, 73163), (84, 73190), (86, 73214), (92, 73262), (93, 73268), (96, 73313), (98, 73322), (99, 73343), (100, 73349), (102, 73367), (105, 73406), (111, 73448), (131, 73658), (132, 73664), (136, 73685), (137, 73709), (149, 73796), (153, 73838), (156, 73853), (157, 73856), (159, 73859), (162, 73937), (166, 74027), (174, 74129), (179, 74216), (181, 74234), (184, 74258),

Gene: Littleton\_132 Start: 71634, Stop: 73892, Start Num: 6

Candidate Starts for Littleton\_132:

(Start: 4 @71625 has 52 MA's), (Start: 6 @71634 has 136 MA's), (7, 71673), (9, 71742), (10, 71751), (14, 71847), (16, 71868), (17, 71877), (18, 71898), (21, 71934), (27, 72018), (31, 72027), (43, 72102), (44, 72105), (45, 72126), (47, 72147), (49, 72162), (50, 72171), (51, 72210), (54, 72240), (57, 72378), (58, 72381), (73, 72549), (79, 72600), (82, 72648), (84, 72675), (86, 72699), (92, 72747), (93, 72753), (96, 72798), (98, 72807), (99, 72828), (100, 72834), (102, 72852), (105, 72891), (111, 72933), (130, 73125), (131, 73143), (132, 73149), (136, 73170), (137, 73194), (149, 73281), (153, 73323), (156, 73338), (157, 73341), (159, 73344), (162, 73422), (166, 73512), (174, 73614), (179, 73701), (181, 73719), (184, 73743),

Gene: Loanshark\_131 Start: 72156, Stop: 74423, Start Num: 4

Candidate Starts for Loanshark\_131:

(Start: 4 @72156 has 52 MA's), (Start: 6 @72165 has 136 MA's), (7, 72204), (9, 72273), (10, 72282), (14, 72378), (16, 72399), (17, 72408), (18, 72429), (21, 72465), (27, 72549), (31, 72558), (43, 72633), (44, 72636), (45, 72657), (47, 72678), (49, 72693), (50, 72702), (51, 72741), (54, 72771), (57, 72909), (58, 72912), (73, 73080), (82, 73179), (84, 73206), (86, 73230), (92, 73278), (93, 73284), (96, 73329), (98, 73338), (99, 73359), (100, 73365), (102, 73383), (105, 73422), (111, 73464), (128, 73632), (131, 73674), (132, 73680), (136, 73701), (137, 73725), (149, 73812), (153, 73854), (156, 73869), (157, 73872), (159, 73875), (162, 73953), (166, 74043), (174, 74145), (179, 74232), (181, 74250), (184, 74274),

Gene: LolaVinca\_132 Start: 72508, Stop: 74766, Start Num: 6

Candidate Starts for LolaVinca\_132:

(Start: 4 @72499 has 52 MA's), (Start: 6 @72508 has 136 MA's), (7, 72547), (9, 72616), (10, 72625), (14, 72721), (16, 72742), (17, 72751), (18, 72772), (21, 72808), (27, 72892), (31, 72901), (43, 72976), (44, 72979), (45, 73000), (47, 73021), (49, 73036), (50, 73045), (51, 73084), (54, 73114), (57, 73252), (58, 73255), (73, 73423), (79, 73474), (82, 73522), (84, 73549), (86, 73573), (92, 73621), (93, 73627), (96, 73672), (98, 73681), (99, 73702), (100, 73708), (102, 73726), (105, 73765), (111, 73807), (130, 73999), (131, 74017), (132, 74023), (136, 74044), (137, 74068), (149, 74155), (153, 74197), (156, 74212), (157, 74215), (159, 74218), (162, 74296), (166, 74386), (174, 74488), (179, 74575), (181, 74593), (184, 74617),

Gene: LookingGlass\_132 Start: 72333, Stop: 74591, Start Num: 6

Candidate Starts for LookingGlass\_132:

(Start: 4 @72324 has 52 MA's), (Start: 6 @72333 has 136 MA's), (7, 72372), (9, 72441), (10, 72450), (14, 72546), (16, 72567), (17, 72576), (18, 72597), (21, 72633), (27, 72717), (31, 72726), (43, 72801), (44, 72804), (45, 72825), (47, 72846), (49, 72861), (50, 72870), (51, 72909), (54, 72939), (57, 73077), (58, 73080), (73, 73248), (82, 73347), (84, 73374), (86, 73398), (92, 73446), (93, 73452), (96, 73497), (98, 73506), (99, 73527), (100, 73533), (102, 73551), (105, 73590), (111, 73632), (128, 73800), (131, 73842), (132, 73848), (136, 73869), (137, 73893), (149, 73980), (153, 74022), (156, 74037), (157, 74040), (159, 74043), (162, 74121), (166, 74211), (174, 74313), (179, 74400), (181, 74418), (184, 74442),

Gene: LordLeafolot\_136 Start: 73474, Stop: 75732, Start Num: 6

Candidate Starts for LordLeafolot\_136:

(Start: 4 @73465 has 52 MA's), (Start: 6 @73474 has 136 MA's), (7, 73513), (9, 73582), (10, 73591), (14, 73687), (16, 73708), (17, 73717), (18, 73738), (21, 73774), (27, 73858), (31, 73867), (43, 73942), (44, 73945), (45, 73966), (47, 73987), (49, 74002), (50, 74011), (51, 74050), (54, 74080), (57, 74218), (58, 74221), (73, 74389), (82, 74488), (84, 74515), (86, 74539), (92, 74587), (93, 74593), (96, 74638), (98, 74647), (99, 74668), (100, 74674), (102, 74692), (105, 74731), (111, 74773), (128, 74941), (131, 74983), (132, 74989), (136, 75010), (137, 75034), (149, 75121), (153, 75163), (156, 75178), (157, 75181), (159, 75184), (162, 75262), (166, 75352), (174, 75454), (179, 75541), (181, 75559), (184, 75583),

Gene: Lukilu\_122 Start: 72550, Stop: 74808, Start Num: 6

Candidate Starts for Lukilu\_122:

(Start: 4 @72541 has 52 MA's), (Start: 6 @72550 has 136 MA's), (7, 72589), (9, 72658), (10, 72667), (14, 72763), (16, 72784), (17, 72793), (18, 72814), (21, 72850), (27, 72934), (31, 72943), (43, 73018), (44, 73021), (45, 73042), (47, 73063), (49, 73078), (50, 73087), (51, 73126), (54, 73156), (57, 73294), (58, 73297), (73, 73465), (82, 73564), (84, 73591), (86, 73615), (92, 73663), (93, 73669), (96, 73714), (98, 73723), (99, 73744), (100, 73750), (102, 73768), (105, 73807), (111, 73849), (128, 74017), (131, 74059), (132, 74065), (136, 74086), (137, 74110), (149, 74197), (153, 74239), (156, 74254), (157, 74257), (159, 74260), (162, 74338), (166, 74428), (174, 74530), (179, 74617), (181, 74635), (184, 74659),

Gene: Lunareta\_131 Start: 73427, Stop: 75688, Start Num: 6

Candidate Starts for Lunareta\_131:

(Start: 4 @73418 has 52 MA's), (Start: 6 @73427 has 136 MA's), (7, 73466), (9, 73535), (10, 73544), (14, 73640), (16, 73661), (17, 73670), (18, 73691), (21, 73727), (27, 73811), (31, 73820), (43, 73895), (44, 73898), (45, 73919), (47, 73940), (49, 73955), (50, 73964), (51, 74003), (54, 74033), (57, 74171), (58, 74174), (73, 74342), (79, 74393), (82, 74441), (84, 74468), (86, 74492), (92, 74540), (93, 74546), (96, 74591), (98, 74600), (99, 74621), (100, 74627), (102, 74645), (105, 74684), (111, 74726), (130, 74918), (131, 74936), (132, 74942), (136, 74963), (137, 74987), (149, 75074), (153, 75116), (156, 75131), (157, 75134), (159, 75137), (162, 75215), (166, 75305), (174, 75407), (179, 75497), (181, 75515), (184, 75539),

Gene: Maby2021\_132 Start: 72281, Stop: 74539, Start Num: 6

Candidate Starts for Maby2021\_132:

(Start: 4 @72272 has 52 MA's), (Start: 6 @72281 has 136 MA's), (7, 72320), (9, 72389), (10, 72398), (14, 72494), (16, 72515), (17, 72524), (18, 72545), (21, 72581), (27, 72665), (31, 72674), (43, 72749), (44, 72752), (45, 72773), (47, 72794), (49, 72809), (50, 72818), (51, 72857), (54, 72887), (57, 73025), (58, 73028), (73, 73196), (82, 73295), (84, 73322), (86, 73346), (92, 73394), (93, 73400), (96, 73445), (98, 73454), (99, 73475), (100, 73481), (102, 73499), (105, 73538), (111, 73580), (128, 73748), (131, 73790), (132, 73796), (136, 73817), (137, 73841), (149, 73928), (153, 73970), (156, 73985), (157,

73988), (159, 73991), (162, 74069), (166, 74159), (174, 74261), (179, 74348), (181, 74366), (184, 74390),

Gene: Mangeria\_132 Start: 72342, Stop: 74609, Start Num: 4

Candidate Starts for Mangeria\_132:

(Start: 4 @72342 has 52 MA's), (Start: 6 @72351 has 136 MA's), (7, 72390), (9, 72459), (10, 72468), (14, 72564), (16, 72585), (17, 72594), (18, 72615), (21, 72651), (27, 72735), (31, 72744), (43, 72819), (44, 72822), (45, 72843), (47, 72864), (49, 72879), (50, 72888), (51, 72927), (54, 72957), (57, 73095), (58, 73098), (73, 73266), (82, 73365), (84, 73392), (86, 73416), (92, 73464), (93, 73470), (96, 73515), (98, 73524), (99, 73545), (100, 73551), (102, 73569), (105, 73608), (111, 73650), (128, 73818), (131, 73860), (132, 73866), (136, 73887), (137, 73911), (149, 73998), (153, 74040), (156, 74055), (157, 74058), (159, 74061), (162, 74139), (166, 74229), (174, 74331), (179, 74418), (181, 74436), (184, 74460),

Gene: Matsumoto\_130 Start: 71142, Stop: 73400, Start Num: 6

Candidate Starts for Matsumoto\_130:

(Start: 4 @71133 has 52 MA's), (Start: 6 @71142 has 136 MA's), (7, 71181), (9, 71250), (10, 71259), (14, 71355), (16, 71376), (17, 71385), (18, 71406), (21, 71442), (27, 71526), (31, 71535), (43, 71610), (44, 71613), (45, 71634), (47, 71655), (49, 71670), (50, 71679), (51, 71718), (54, 71748), (57, 71886), (58, 71889), (73, 72057), (79, 72108), (82, 72156), (84, 72183), (86, 72207), (92, 72255), (93, 72261), (96, 72306), (98, 72315), (99, 72336), (100, 72342), (102, 72360), (105, 72399), (111, 72441), (130, 72633), (131, 72651), (132, 72657), (136, 72678), (137, 72702), (149, 72789), (153, 72831), (156, 72846), (157, 72849), (159, 72852), (162, 72930), (166, 73020), (174, 73122), (179, 73209), (181, 73227), (184, 73251),

Gene: Maturis\_130 Start: 71914, Stop: 74184, Start Num: 4

Candidate Starts for Maturis\_130:

(Start: 4 @71914 has 52 MA's), (Start: 6 @71923 has 136 MA's), (7, 71962), (9, 72031), (10, 72040), (14, 72136), (16, 72157), (17, 72166), (18, 72187), (21, 72223), (27, 72307), (31, 72316), (43, 72391), (44, 72394), (45, 72415), (47, 72436), (49, 72451), (50, 72460), (51, 72499), (54, 72529), (57, 72667), (58, 72670), (73, 72838), (79, 72889), (82, 72937), (84, 72964), (86, 72988), (92, 73036), (93, 73042), (96, 73087), (98, 73096), (99, 73117), (100, 73123), (102, 73141), (105, 73180), (111, 73222), (130, 73414), (131, 73432), (132, 73438), (136, 73459), (137, 73483), (149, 73570), (153, 73612), (156, 73627), (157, 73630), (159, 73633), (162, 73711), (166, 73801), (174, 73903), (179, 73993), (181, 74011), (184, 74035),

Gene: McGee\_134 Start: 70896, Stop: 73154, Start Num: 6

Candidate Starts for McGee\_134:

(Start: 4 @70887 has 52 MA's), (Start: 6 @70896 has 136 MA's), (7, 70935), (9, 71004), (10, 71013), (14, 71109), (16, 71130), (17, 71139), (18, 71160), (21, 71196), (27, 71280), (31, 71289), (43, 71364), (44, 71367), (45, 71388), (47, 71409), (49, 71424), (50, 71433), (51, 71472), (54, 71502), (57, 71640), (58, 71643), (73, 71811), (79, 71862), (82, 71910), (84, 71937), (86, 71961), (92, 72009), (93, 72015), (96, 72060), (98, 72069), (99, 72090), (100, 72096), (102, 72114), (105, 72153), (111, 72195), (128, 72363), (131, 72405), (132, 72411), (136, 72432), (137, 72456), (149, 72543), (153, 72585), (156, 72600), (157, 72603), (159, 72606), (162, 72684), (166, 72774), (174, 72876), (179, 72963), (181, 72981), (184, 73005),

Gene: McWolfish\_130 Start: 72061, Stop: 74328, Start Num: 4

Candidate Starts for McWolfish\_130:

(Start: 4 @72061 has 52 MA's), (Start: 6 @72070 has 136 MA's), (7, 72109), (9, 72178), (10, 72187), (14, 72283), (16, 72304), (17, 72313), (18, 72334), (21, 72370), (27, 72454), (31, 72463), (43, 72538), (44, 72541), (45, 72562), (47, 72583), (49, 72598), (50, 72607), (51, 72646), (54, 72676), (57, 72814), (58, 72817), (73, 72985), (82, 73084), (84, 73111), (86, 73135), (92, 73183), (93, 73189), (96, 73234),

(98, 73243), (99, 73264), (100, 73270), (102, 73288), (105, 73327), (111, 73369), (128, 73537), (131, 73579), (132, 73585), (136, 73606), (137, 73630), (149, 73717), (153, 73759), (156, 73774), (157, 73777), (159, 73780), (162, 73858), (166, 73948), (174, 74050), (179, 74137), (181, 74155), (184, 74179),

Gene: Megamind\_131 Start: 71954, Stop: 74212, Start Num: 6

Candidate Starts for Megamind\_131:

(Start: 4 @71945 has 52 MA's), (Start: 6 @71954 has 136 MA's), (7, 71993), (9, 72062), (10, 72071), (14, 72167), (16, 72188), (17, 72197), (18, 72218), (21, 72254), (27, 72338), (31, 72347), (43, 72422), (44, 72425), (45, 72446), (47, 72467), (49, 72482), (50, 72491), (51, 72530), (54, 72560), (57, 72698), (58, 72701), (73, 72869), (82, 72968), (84, 72995), (86, 73019), (92, 73067), (93, 73073), (96, 73118), (98, 73127), (99, 73148), (100, 73154), (102, 73172), (105, 73211), (111, 73253), (128, 73421), (131, 73463), (132, 73469), (136, 73490), (137, 73514), (149, 73601), (153, 73643), (156, 73658), (157, 73661), (159, 73664), (162, 73742), (166, 73832), (174, 73934), (179, 74021), (181, 74039), (184, 74063),

Gene: Melpomini\_126 Start: 69411, Stop: 71678, Start Num: 4

Candidate Starts for Melpomini\_126:

(Start: 4 @69411 has 52 MA's), (Start: 6 @69420 has 136 MA's), (7, 69459), (9, 69528), (10, 69537), (14, 69633), (16, 69654), (17, 69663), (18, 69684), (21, 69720), (27, 69804), (31, 69813), (43, 69888), (44, 69891), (45, 69912), (47, 69933), (49, 69948), (50, 69957), (51, 69996), (54, 70026), (57, 70164), (58, 70167), (73, 70335), (82, 70434), (84, 70461), (86, 70485), (92, 70533), (93, 70539), (96, 70584), (98, 70593), (99, 70614), (100, 70620), (102, 70638), (105, 70677), (111, 70719), (128, 70887), (131, 70929), (132, 70935), (136, 70956), (137, 70980), (149, 71067), (153, 71109), (156, 71124), (157, 71127), (159, 71130), (162, 71208), (166, 71298), (174, 71400), (179, 71487), (181, 71505), (184, 71529),

Gene: MikeLiesIn\_133 Start: 72311, Stop: 74569, Start Num: 6

Candidate Starts for MikeLiesIn\_133:

(Start: 4 @72302 has 52 MA's), (Start: 6 @72311 has 136 MA's), (7, 72350), (9, 72419), (10, 72428), (14, 72524), (16, 72545), (17, 72554), (18, 72575), (21, 72611), (27, 72695), (31, 72704), (43, 72779), (44, 72782), (45, 72803), (47, 72824), (49, 72839), (50, 72848), (51, 72887), (54, 72917), (57, 73055), (58, 73058), (73, 73226), (82, 73325), (84, 73352), (86, 73376), (92, 73424), (93, 73430), (96, 73475), (98, 73484), (99, 73505), (100, 73511), (102, 73529), (105, 73568), (111, 73610), (128, 73778), (131, 73820), (132, 73826), (136, 73847), (137, 73871), (149, 73958), (153, 74000), (156, 74015), (157, 74018), (159, 74021), (162, 74099), (166, 74189), (174, 74291), (179, 74378), (181, 74396), (184, 74420),

Gene: Mikro\_129 Start: 73524, Stop: 75782, Start Num: 6

Candidate Starts for Mikro\_129:

(Start: 4 @73515 has 52 MA's), (Start: 6 @73524 has 136 MA's), (7, 73563), (9, 73632), (10, 73641), (14, 73737), (16, 73758), (17, 73767), (18, 73788), (21, 73824), (27, 73908), (31, 73917), (43, 73992), (44, 73995), (45, 74016), (47, 74037), (49, 74052), (50, 74061), (51, 74100), (54, 74130), (57, 74268), (58, 74271), (73, 74439), (82, 74538), (84, 74565), (86, 74589), (92, 74637), (93, 74643), (96, 74688), (98, 74697), (99, 74718), (100, 74724), (102, 74742), (105, 74781), (111, 74823), (128, 74991), (131, 75033), (132, 75039), (136, 75060), (137, 75084), (149, 75171), (153, 75213), (156, 75228), (157, 75231), (159, 75234), (162, 75312), (166, 75402), (174, 75504), (179, 75591), (181, 75609), (184, 75633),

Gene: MoMoMixon\_132 Start: 71787, Stop: 74045, Start Num: 6

Candidate Starts for MoMoMixon\_132:

(Start: 4 @71778 has 52 MA's), (Start: 6 @71787 has 136 MA's), (7, 71826), (9, 71895), (10, 71904), (14, 72000), (16, 72021), (17, 72030), (18, 72051), (21, 72087), (27, 72171), (31, 72180), (43, 72255),

(44, 72258), (45, 72279), (47, 72300), (49, 72315), (50, 72324), (51, 72363), (54, 72393), (57, 72531), (58, 72534), (73, 72702), (82, 72801), (84, 72828), (86, 72852), (92, 72900), (93, 72906), (96, 72951), (98, 72960), (99, 72981), (100, 72987), (102, 73005), (105, 73044), (111, 73086), (128, 73254), (131, 73296), (132, 73302), (136, 73323), (137, 73347), (149, 73434), (153, 73476), (156, 73491), (157, 73494), (159, 73497), (162, 73575), (166, 73665), (174, 73767), (179, 73854), (181, 73872), (184, 73896),

Gene: Moby\_125 Start: 69125, Stop: 71383, Start Num: 6

Candidate Starts for Moby\_125:

(Start: 4 @69116 has 52 MA's), (Start: 6 @69125 has 136 MA's), (7, 69164), (9, 69233), (10, 69242), (14, 69338), (16, 69359), (17, 69368), (18, 69389), (21, 69425), (27, 69509), (31, 69518), (43, 69593), (44, 69596), (45, 69617), (47, 69638), (49, 69653), (50, 69662), (51, 69701), (54, 69731), (57, 69869), (58, 69872), (73, 70040), (82, 70139), (84, 70166), (86, 70190), (92, 70238), (93, 70244), (96, 70289), (98, 70298), (99, 70319), (100, 70325), (102, 70343), (105, 70382), (111, 70424), (131, 70634), (132, 70640), (136, 70661), (137, 70685), (149, 70772), (153, 70814), (156, 70829), (157, 70832), (159, 70835), (162, 70913), (166, 71003), (174, 71105), (179, 71192), (181, 71210), (184, 71234),

Gene: Moiqah\_124 Start: 69102, Stop: 71360, Start Num: 6

Candidate Starts for Moiqah\_124:

(Start: 4 @69093 has 52 MA's), (Start: 6 @69102 has 136 MA's), (7, 69141), (9, 69210), (10, 69219), (14, 69315), (16, 69336), (17, 69345), (18, 69366), (21, 69402), (27, 69486), (31, 69495), (43, 69570), (44, 69573), (45, 69594), (47, 69615), (49, 69630), (50, 69639), (51, 69678), (54, 69708), (57, 69846), (58, 69849), (73, 70017), (82, 70116), (84, 70143), (86, 70167), (92, 70215), (93, 70221), (96, 70266), (98, 70275), (99, 70296), (100, 70302), (102, 70320), (105, 70359), (111, 70401), (131, 70611), (132, 70617), (136, 70638), (137, 70662), (149, 70749), (153, 70791), (156, 70806), (157, 70809), (159, 70812), (162, 70890), (166, 70980), (174, 71082), (179, 71169), (181, 71187), (184, 71211),

Gene: Momo\_132 Start: 71305, Stop: 73563, Start Num: 6

Candidate Starts for Momo\_132:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Montpel\_131 Start: 73425, Stop: 75686, Start Num: 6

Candidate Starts for Montpel\_131:

(Start: 4 @73416 has 52 MA's), (Start: 6 @73425 has 136 MA's), (7, 73464), (9, 73533), (10, 73542), (14, 73638), (16, 73659), (17, 73668), (18, 73689), (21, 73725), (27, 73809), (31, 73818), (43, 73893), (44, 73896), (45, 73917), (47, 73938), (49, 73953), (50, 73962), (51, 74001), (54, 74031), (57, 74169), (58, 74172), (73, 74340), (79, 74391), (82, 74439), (84, 74466), (86, 74490), (92, 74538), (93, 74544), (96, 74589), (98, 74598), (99, 74619), (100, 74625), (102, 74643), (105, 74682), (111, 74724), (130, 74916), (131, 74934), (132, 74940), (136, 74961), (137, 74985), (149, 75072), (153, 75114), (156, 75129), (157, 75132), (159, 75135), (162, 75213), (166, 75303), (174, 75405), (179, 75495), (181, 75513), (184, 75537),

Gene: Morizzled23\_133 Start: 71660, Stop: 73918, Start Num: 6

Candidate Starts for Morizzled23\_133:

(Start: 4 @71651 has 52 MA's), (Start: 6 @71660 has 136 MA's), (7, 71699), (9, 71768), (10, 71777), (14, 71873), (16, 71894), (17, 71903), (18, 71924), (21, 71960), (27, 72044), (31, 72053), (43, 72128),

(44, 72131), (45, 72152), (47, 72173), (49, 72188), (50, 72197), (51, 72236), (54, 72266), (57, 72404), (58, 72407), (73, 72575), (82, 72674), (84, 72701), (86, 72725), (92, 72773), (93, 72779), (96, 72824), (98, 72833), (99, 72854), (100, 72860), (102, 72878), (105, 72917), (111, 72959), (128, 73127), (131, 73169), (132, 73175), (136, 73196), (137, 73220), (149, 73307), (153, 73349), (156, 73364), (157, 73367), (159, 73370), (162, 73448), (166, 73538), (174, 73640), (179, 73727), (181, 73745), (184, 73769),

Gene: Myrna\_128 Start: 73298, Stop: 75631, Start Num: 6

Candidate Starts for Myrna\_128:

(Start: 4 @73289 has 52 MA's), (Start: 6 @73298 has 136 MA's), (15, 73520), (16, 73532), (17, 73541), (19, 73589), (21, 73604), (25, 73667), (32, 73694), (34, 73703), (35, 73712), (37, 73724), (38, 73733), (40, 73736), (41, 73739), (43, 73766), (51, 73868), (54, 73898), (60, 74066), (65, 74120), (66, 74138), (75, 74285), (78, 74306), (86, 74420), (87, 74423), (88, 74429), (92, 74468), (95, 74516), (97, 74525), (98, 74528), (99, 74549), (100, 74555), (102, 74573), (109, 74636), (114, 74678), (123, 74735), (128, 74819), (133, 74870), (136, 74888), (137, 74912), (141, 74927), (147, 74990), (151, 75041), (152, 75044), (163, 75191), (182, 75458), (186, 75545), (188, 75560),

Gene: Naija\_132 Start: 71296, Stop: 73563, Start Num: 4

Candidate Starts for Naija\_132:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Napoleon13\_128 Start: 69849, Stop: 72116, Start Num: 4

Candidate Starts for Napoleon13\_128:

(Start: 4 @69849 has 52 MA's), (Start: 6 @69858 has 136 MA's), (7, 69897), (9, 69966), (10, 69975), (14, 70071), (16, 70092), (17, 70101), (18, 70122), (21, 70158), (27, 70242), (31, 70251), (43, 70326), (44, 70329), (45, 70350), (47, 70371), (49, 70386), (50, 70395), (51, 70434), (54, 70464), (57, 70602), (58, 70605), (73, 70773), (82, 70872), (84, 70899), (86, 70923), (92, 70971), (93, 70977), (96, 71022), (98, 71031), (99, 71052), (100, 71058), (102, 71076), (105, 71115), (111, 71157), (128, 71325), (131, 71367), (132, 71373), (136, 71394), (137, 71418), (149, 71505), (153, 71547), (156, 71562), (157, 71565), (159, 71568), (162, 71646), (166, 71736), (174, 71838), (179, 71925), (181, 71943), (184, 71967),

Gene: Nappy\_134 Start: 73221, Stop: 75479, Start Num: 6

Candidate Starts for Nappy\_134:

(Start: 4 @73212 has 52 MA's), (Start: 6 @73221 has 136 MA's), (7, 73260), (9, 73329), (10, 73338), (14, 73434), (16, 73455), (17, 73464), (18, 73485), (21, 73521), (27, 73605), (31, 73614), (43, 73689), (44, 73692), (45, 73713), (47, 73734), (49, 73749), (50, 73758), (51, 73797), (54, 73827), (57, 73965), (58, 73968), (73, 74136), (82, 74235), (84, 74262), (86, 74286), (92, 74334), (93, 74340), (96, 74385), (98, 74394), (99, 74415), (100, 74421), (102, 74439), (105, 74478), (111, 74520), (128, 74688), (131, 74730), (132, 74736), (136, 74757), (137, 74781), (149, 74868), (153, 74910), (156, 74925), (157, 74928), (159, 74931), (162, 75009), (166, 75099), (174, 75201), (179, 75288), (181, 75306), (184, 75330),

Gene: Naval22\_137 Start: 73754, Stop: 76012, Start Num: 6

Candidate Starts for Naval22\_137:

(Start: 4 @73745 has 52 MA's), (Start: 6 @73754 has 136 MA's), (7, 73793), (9, 73862), (10, 73871), (14, 73967), (16, 73988), (17, 73997), (18, 74018), (21, 74054), (27, 74138), (31, 74147), (43, 74222), (44, 74225), (45, 74246), (47, 74267), (49, 74282), (50, 74291), (51, 74330), (54, 74360), (57, 74498), (58, 74501), (73, 74669), (82, 74768), (84, 74795), (86, 74819), (92, 74867), (93, 74873), (96, 74918), (98, 74927), (99, 74948), (100, 74954), (102, 74972), (105, 75011), (111, 75053), (128, 75221), (131, 75263), (132, 75269), (136, 75290), (137, 75314), (149, 75401), (153, 75443), (156, 75458), (157, 75461), (159, 75464), (162, 75542), (166, 75632), (174, 75734), (179, 75821), (181, 75839), (184, 75863),

Gene: NedWong\_133 Start: 72288, Stop: 74546, Start Num: 6

Candidate Starts for NedWong\_133:

(Start: 4 @72279 has 52 MA's), (Start: 6 @72288 has 136 MA's), (7, 72327), (9, 72396), (10, 72405), (14, 72501), (16, 72522), (17, 72531), (18, 72552), (21, 72588), (27, 72672), (31, 72681), (43, 72756), (44, 72759), (45, 72780), (47, 72801), (49, 72816), (50, 72825), (51, 72864), (54, 72894), (57, 73032), (58, 73035), (73, 73203), (82, 73302), (84, 73329), (86, 73353), (92, 73401), (93, 73407), (96, 73452), (98, 73461), (99, 73482), (100, 73488), (102, 73506), (105, 73545), (111, 73587), (128, 73755), (131, 73797), (132, 73803), (136, 73824), (137, 73848), (149, 73935), (153, 73977), (156, 73992), (157, 73995), (159, 73998), (162, 74076), (166, 74166), (174, 74268), (179, 74355), (181, 74373), (184, 74397),

Gene: Ngannou\_129 Start: 70287, Stop: 72545, Start Num: 6

Candidate Starts for Ngannou\_129:

(Start: 4 @70278 has 52 MA's), (Start: 6 @70287 has 136 MA's), (7, 70326), (9, 70395), (10, 70404), (14, 70500), (16, 70521), (17, 70530), (18, 70551), (21, 70587), (27, 70671), (31, 70680), (43, 70755), (44, 70758), (45, 70779), (47, 70800), (49, 70815), (50, 70824), (51, 70863), (54, 70893), (57, 71031), (58, 71034), (73, 71202), (79, 71253), (82, 71301), (84, 71328), (86, 71352), (92, 71400), (93, 71406), (96, 71451), (98, 71460), (99, 71481), (100, 71487), (102, 71505), (105, 71544), (111, 71586), (130, 71778), (131, 71796), (132, 71802), (136, 71823), (137, 71847), (149, 71934), (153, 71976), (156, 71991), (157, 71994), (159, 71997), (162, 72075), (166, 72165), (174, 72267), (179, 72354), (181, 72372), (184, 72396),

Gene: Nidhogg\_134 Start: 72511, Stop: 74769, Start Num: 6

Candidate Starts for Nidhogg\_134:

(Start: 4 @72502 has 52 MA's), (Start: 6 @72511 has 136 MA's), (7, 72550), (9, 72619), (10, 72628), (14, 72724), (16, 72745), (17, 72754), (18, 72775), (21, 72811), (27, 72895), (31, 72904), (43, 72979), (44, 72982), (45, 73003), (47, 73024), (49, 73039), (50, 73048), (51, 73087), (54, 73117), (57, 73255), (58, 73258), (73, 73426), (82, 73525), (84, 73552), (86, 73576), (92, 73624), (93, 73630), (96, 73675), (98, 73684), (99, 73705), (100, 73711), (102, 73729), (105, 73768), (111, 73810), (128, 73978), (131, 74020), (132, 74026), (136, 74047), (137, 74071), (149, 74158), (153, 74200), (156, 74215), (157, 74218), (159, 74221), (162, 74299), (166, 74389), (174, 74491), (179, 74578), (181, 74596), (184, 74620),

Gene: NoodleTree\_139 Start: 72372, Stop: 74639, Start Num: 4

Candidate Starts for NoodleTree\_139:

(Start: 4 @72372 has 52 MA's), (Start: 6 @72381 has 136 MA's), (7, 72420), (9, 72489), (10, 72498), (14, 72594), (16, 72615), (17, 72624), (18, 72645), (21, 72681), (27, 72765), (31, 72774), (43, 72849), (44, 72852), (45, 72873), (47, 72894), (49, 72909), (50, 72918), (51, 72957), (54, 72987), (57, 73125), (58, 73128), (73, 73296), (82, 73395), (84, 73422), (86, 73446), (92, 73494), (93, 73500), (96, 73545), (98, 73554), (99, 73575), (100, 73581), (102, 73599), (105, 73638), (111, 73680), (128, 73848), (131, 73890), (132, 73896), (136, 73917), (137, 73941), (149, 74028), (153, 74070), (156, 74085), (157, 74088), (159, 74091), (162, 74169), (166, 74259), (174, 74361), (179, 74448), (181, 74466), (184, 74490),

Gene: Norm\_133 Start: 72974, Stop: 75241, Start Num: 4

Candidate Starts for Norm\_133:

(Start: 4 @72974 has 52 MA's), (Start: 6 @72983 has 136 MA's), (7, 73022), (9, 73091), (10, 73100), (14, 73196), (16, 73217), (17, 73226), (18, 73247), (21, 73283), (27, 73367), (31, 73376), (43, 73451), (44, 73454), (45, 73475), (47, 73496), (49, 73511), (50, 73520), (51, 73559), (54, 73589), (57, 73727), (58, 73730), (73, 73898), (82, 73997), (84, 74024), (86, 74048), (92, 74096), (93, 74102), (96, 74147), (98, 74156), (99, 74177), (100, 74183), (102, 74201), (105, 74240), (111, 74282), (128, 74450), (131, 74492), (132, 74498), (136, 74519), (137, 74543), (149, 74630), (153, 74672), (156, 74687), (157, 74690), (159, 74693), (162, 74771), (166, 74861), (174, 74963), (179, 75050), (181, 75068), (184, 75092),

Gene: NuevoMundo\_137 Start: 74563, Stop: 76821, Start Num: 6

Candidate Starts for NuevoMundo\_137:

(Start: 4 @74554 has 52 MA's), (Start: 6 @74563 has 136 MA's), (7, 74602), (9, 74671), (10, 74680), (14, 74776), (16, 74797), (17, 74806), (18, 74827), (21, 74863), (27, 74947), (31, 74956), (43, 75031), (44, 75034), (45, 75055), (47, 75076), (49, 75091), (50, 75100), (51, 75139), (54, 75169), (57, 75307), (58, 75310), (73, 75478), (82, 75577), (84, 75604), (86, 75628), (92, 75676), (93, 75682), (96, 75727), (98, 75736), (99, 75757), (100, 75763), (102, 75781), (105, 75820), (111, 75862), (128, 76030), (131, 76072), (132, 76078), (136, 76099), (137, 76123), (149, 76210), (153, 76252), (156, 76267), (157, 76270), (159, 76273), (162, 76351), (166, 76441), (174, 76543), (179, 76630), (181, 76648), (184, 76672),

Gene: OrediggerDelux\_130 Start: 72809, Stop: 75076, Start Num: 4

Candidate Starts for OrediggerDelux\_130:

(Start: 4 @72809 has 52 MA's), (Start: 6 @72818 has 136 MA's), (7, 72857), (9, 72926), (10, 72935), (14, 73031), (16, 73052), (17, 73061), (18, 73082), (21, 73118), (27, 73202), (31, 73211), (43, 73286), (44, 73289), (45, 73310), (47, 73331), (49, 73346), (50, 73355), (51, 73394), (54, 73424), (57, 73562), (58, 73565), (73, 73733), (82, 73832), (84, 73859), (86, 73883), (92, 73931), (93, 73937), (96, 73982), (98, 73991), (99, 74012), (100, 74018), (102, 74036), (105, 74075), (111, 74117), (128, 74285), (131, 74327), (132, 74333), (136, 74354), (137, 74378), (149, 74465), (153, 74507), (156, 74522), (157, 74525), (159, 74528), (162, 74606), (166, 74696), (174, 74798), (179, 74885), (181, 74903), (184, 74927),

Gene: ParkTD\_133 Start: 72294, Stop: 74552, Start Num: 6

Candidate Starts for ParkTD\_133:

(Start: 4 @72285 has 52 MA's), (Start: 6 @72294 has 136 MA's), (7, 72333), (9, 72402), (10, 72411), (14, 72507), (16, 72528), (17, 72537), (18, 72558), (21, 72594), (27, 72678), (31, 72687), (43, 72762), (44, 72765), (45, 72786), (47, 72807), (49, 72822), (50, 72831), (51, 72870), (54, 72900), (57, 73038), (58, 73041), (73, 73209), (82, 73308), (84, 73335), (86, 73359), (92, 73407), (93, 73413), (96, 73458), (98, 73467), (99, 73488), (100, 73494), (102, 73512), (105, 73551), (111, 73593), (128, 73761), (131, 73803), (132, 73809), (136, 73830), (137, 73854), (149, 73941), (153, 73983), (156, 73998), (157, 74001), (159, 74004), (162, 74082), (166, 74172), (174, 74274), (179, 74361), (181, 74379), (184, 74403),

Gene: Patter\_133 Start: 71313, Stop: 73580, Start Num: 4

Candidate Starts for Patter\_133:

(Start: 4 @71313 has 52 MA's), (Start: 6 @71322 has 136 MA's), (7, 71361), (9, 71430), (10, 71439), (14, 71535), (16, 71556), (17, 71565), (18, 71586), (21, 71622), (27, 71706), (31, 71715), (43, 71790), (44, 71793), (45, 71814), (47, 71835), (49, 71850), (50, 71859), (51, 71898), (54, 71928), (57, 72066), (58, 72069), (73, 72237), (79, 72288), (82, 72336), (84, 72363), (86, 72387), (92, 72435), (93, 72441), (96, 72486), (98, 72495), (99, 72516), (100, 72522), (102, 72540), (105, 72579), (111, 72621), (130, 72813), (131, 72831), (132, 72837), (136, 72858), (137, 72882), (149, 72969), (153, 73011), (156, 73026), (157, 73029), (159, 73032), (162, 73110), (166, 73200), (174, 73302), (179, 73389), (181,

73407), (184, 73431),

Gene: Phabba\_133 Start: 72298, Stop: 74628, Start Num: 6

Candidate Starts for Phabba\_133:

(Start: 4 @72289 has 52 MA's), (Start: 6 @72298 has 136 MA's), (8, 72394), (9, 72406), (11, 72421), (13, 72478), (15, 72520), (17, 72541), (21, 72601), (25, 72667), (33, 72700), (35, 72715), (37, 72727), (38, 72736), (40, 72739), (41, 72742), (43, 72769), (49, 72829), (51, 72871), (54, 72901), (59, 73063), (60, 73069), (75, 73282), (83, 73384), (85, 73405), (86, 73417), (87, 73420), (88, 73426), (92, 73465), (95, 73513), (97, 73522), (98, 73525), (99, 73546), (100, 73552), (102, 73570), (109, 73633), (114, 73675), (123, 73732), (133, 73867), (137, 73909), (141, 73924), (147, 73987), (151, 74038), (152, 74041), (158, 74062), (165, 74221), (168, 74251), (186, 74542), (188, 74557),

Gene: PharkleMinkus\_136 Start: 72622, Stop: 74880, Start Num: 6

Candidate Starts for PharkleMinkus\_136:

(Start: 4 @72613 has 52 MA's), (Start: 6 @72622 has 136 MA's), (7, 72661), (9, 72730), (10, 72739), (14, 72835), (16, 72856), (17, 72865), (18, 72886), (21, 72922), (27, 73006), (31, 73015), (43, 73090), (44, 73093), (45, 73114), (47, 73135), (49, 73150), (50, 73159), (51, 73198), (54, 73228), (57, 73366), (58, 73369), (73, 73537), (82, 73636), (84, 73663), (86, 73687), (92, 73735), (93, 73741), (96, 73786), (98, 73795), (99, 73816), (100, 73822), (102, 73840), (105, 73879), (111, 73921), (128, 74089), (131, 74131), (132, 74137), (136, 74158), (137, 74182), (149, 74269), (153, 74311), (156, 74326), (157, 74329), (159, 74332), (162, 74410), (166, 74500), (174, 74602), (179, 74689), (181, 74707), (184, 74731),

Gene: Phlegm\_136 Start: 71305, Stop: 73563, Start Num: 6

Candidate Starts for Phlegm\_136:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Phox\_129 Start: 72574, Stop: 74832, Start Num: 6

Candidate Starts for Phox\_129:

(Start: 4 @72565 has 52 MA's), (Start: 6 @72574 has 136 MA's), (7, 72613), (9, 72682), (10, 72691), (14, 72787), (16, 72808), (17, 72817), (18, 72838), (21, 72874), (27, 72958), (31, 72967), (43, 73042), (44, 73045), (45, 73066), (47, 73087), (49, 73102), (50, 73111), (51, 73150), (54, 73180), (57, 73318), (58, 73321), (73, 73489), (79, 73540), (82, 73588), (84, 73615), (86, 73639), (92, 73687), (93, 73693), (96, 73738), (98, 73747), (99, 73768), (100, 73774), (102, 73792), (105, 73831), (111, 73873), (128, 74041), (131, 74083), (132, 74089), (136, 74110), (137, 74134), (149, 74221), (153, 74263), (156, 74278), (157, 74281), (159, 74284), (162, 74362), (166, 74452), (174, 74554), (179, 74641), (181, 74659), (184, 74683),

Gene: Phrappuccino\_78 Start: 54728, Stop: 57052, Start Num: 4

Candidate Starts for Phrappuccino\_78:

(Start: 4 @54728 has 52 MA's), (5, 54734), (20, 55043), (23, 55115), (24, 55139), (34, 55193), (46, 55280), (53, 55379), (61, 55586), (62, 55589), (63, 55607), (67, 55634), (68, 55655), (69, 55670), (70, 55676), (76, 55763), (80, 55796), (81, 55802), (89, 55889), (91, 55916), (95, 55970), (98, 55982), (103, 56027), (108, 56081), (109, 56084), (112, 56105), (117, 56159), (120, 56171), (124, 56207), (129, 56285), (146, 56411), (154, 56486), (164, 56654), (167, 56669), (170, 56723), (172, 56753), (180, 56870), (181, 56882), (187, 56993),

Gene: Phusco\_132 Start: 71572, Stop: 73839, Start Num: 4

Candidate Starts for Phusco\_132:

(Start: 4 @71572 has 52 MA's), (Start: 6 @71581 has 136 MA's), (7, 71620), (9, 71689), (10, 71698), (14, 71794), (16, 71815), (17, 71824), (18, 71845), (21, 71881), (27, 71965), (31, 71974), (43, 72049), (44, 72052), (45, 72073), (47, 72094), (49, 72109), (50, 72118), (51, 72157), (54, 72187), (57, 72325), (58, 72328), (73, 72496), (79, 72547), (82, 72595), (84, 72622), (86, 72646), (92, 72694), (93, 72700), (96, 72745), (98, 72754), (99, 72775), (100, 72781), (102, 72799), (105, 72838), (111, 72880), (130, 73072), (131, 73090), (132, 73096), (136, 73117), (137, 73141), (149, 73228), (153, 73270), (156, 73285), (157, 73288), (159, 73291), (162, 73369), (166, 73459), (174, 73561), (179, 73648), (181, 73666), (184, 73690),

Gene: Pier\_136 Start: 74571, Stop: 76829, Start Num: 6

Candidate Starts for Pier\_136:

(Start: 4 @74562 has 52 MA's), (Start: 6 @74571 has 136 MA's), (7, 74610), (9, 74679), (10, 74688), (14, 74784), (16, 74805), (17, 74814), (18, 74835), (21, 74871), (27, 74955), (31, 74964), (43, 75039), (44, 75042), (45, 75063), (47, 75084), (49, 75099), (50, 75108), (51, 75147), (54, 75177), (57, 75315), (58, 75318), (73, 75486), (82, 75585), (84, 75612), (86, 75636), (92, 75684), (93, 75690), (96, 75735), (98, 75744), (99, 75765), (100, 75771), (102, 75789), (105, 75828), (111, 75870), (128, 76038), (131, 76080), (132, 76086), (136, 76107), (137, 76131), (149, 76218), (153, 76260), (156, 76275), (157, 76278), (159, 76281), (162, 76359), (166, 76449), (174, 76551), (179, 76638), (181, 76656), (184, 76680),

Gene: Pinkcreek\_123 Start: 69915, Stop: 72173, Start Num: 6

Candidate Starts for Pinkcreek\_123:

(Start: 4 @69906 has 52 MA's), (Start: 6 @69915 has 136 MA's), (7, 69954), (9, 70023), (10, 70032), (14, 70128), (16, 70149), (17, 70158), (18, 70179), (21, 70215), (27, 70299), (31, 70308), (43, 70383), (44, 70386), (45, 70407), (47, 70428), (49, 70443), (50, 70452), (51, 70491), (54, 70521), (57, 70659), (58, 70662), (73, 70830), (82, 70929), (84, 70956), (86, 70980), (92, 71028), (93, 71034), (96, 71079), (98, 71088), (99, 71109), (100, 71115), (102, 71133), (105, 71172), (111, 71214), (131, 71424), (132, 71430), (136, 71451), (137, 71475), (149, 71562), (153, 71604), (156, 71619), (157, 71622), (159, 71625), (162, 71703), (166, 71793), (174, 71895), (179, 71982), (181, 72000), (184, 72024),

Gene: Pio\_136 Start: 74183, Stop: 76441, Start Num: 6

Candidate Starts for Pio\_136:

(Start: 4 @74174 has 52 MA's), (Start: 6 @74183 has 136 MA's), (7, 74222), (9, 74291), (10, 74300), (14, 74396), (16, 74417), (17, 74426), (18, 74447), (21, 74483), (27, 74567), (31, 74576), (43, 74651), (44, 74654), (45, 74675), (47, 74696), (49, 74711), (50, 74720), (51, 74759), (54, 74789), (57, 74927), (58, 74930), (73, 75098), (82, 75197), (84, 75224), (86, 75248), (92, 75296), (93, 75302), (96, 75347), (98, 75356), (99, 75377), (100, 75383), (102, 75401), (105, 75440), (111, 75482), (128, 75650), (131, 75692), (132, 75698), (136, 75719), (137, 75743), (149, 75830), (153, 75872), (156, 75887), (157, 75890), (159, 75893), (162, 75971), (166, 76061), (174, 76163), (181, 76268), (184, 76292),

Gene: Pivoine\_132 Start: 71296, Stop: 73563, Start Num: 4

Candidate Starts for Pivoine\_132:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Pleione\_135 Start: 72461, Stop: 74719, Start Num: 6

Candidate Starts for Pleione\_135:

(Start: 4 @72452 has 52 MA's), (Start: 6 @72461 has 136 MA's), (7, 72500), (9, 72569), (10, 72578), (14, 72674), (16, 72695), (17, 72704), (18, 72725), (21, 72761), (27, 72845), (31, 72854), (43, 72929), (44, 72932), (45, 72953), (47, 72974), (49, 72989), (50, 72998), (51, 73037), (54, 73067), (57, 73205), (58, 73208), (73, 73376), (82, 73475), (84, 73502), (86, 73526), (92, 73574), (93, 73580), (96, 73625), (98, 73634), (99, 73655), (100, 73661), (102, 73679), (105, 73718), (111, 73760), (128, 73928), (131, 73970), (132, 73976), (136, 73997), (137, 74021), (149, 74108), (153, 74150), (156, 74165), (157, 74168), (159, 74171), (162, 74249), (166, 74339), (174, 74441), (179, 74528), (181, 74546), (184, 74570),

Gene: Primadonna\_126 Start: 70946, Stop: 73204, Start Num: 6

Candidate Starts for Primadonna\_126:

(Start: 4 @70937 has 52 MA's), (Start: 6 @70946 has 136 MA's), (7, 70985), (9, 71054), (10, 71063), (14, 71159), (16, 71180), (17, 71189), (18, 71210), (21, 71246), (27, 71330), (31, 71339), (43, 71414), (44, 71417), (45, 71438), (47, 71459), (49, 71474), (50, 71483), (51, 71522), (54, 71552), (57, 71690), (58, 71693), (73, 71861), (79, 71912), (82, 71960), (84, 71987), (86, 72011), (92, 72059), (93, 72065), (96, 72110), (98, 72119), (99, 72140), (100, 72146), (102, 72164), (105, 72203), (111, 72245), (130, 72437), (131, 72455), (132, 72461), (136, 72482), (137, 72506), (149, 72593), (153, 72635), (156, 72650), (157, 72653), (159, 72656), (162, 72734), (166, 72824), (174, 72926), (179, 73013), (181, 73031), (184, 73055),

Gene: Pupper\_119 Start: 72687, Stop: 75194, Start Num: 6

Candidate Starts for Pupper\_119:

(Start: 1 @72645 has 1 MA's), (Start: 6 @72687 has 136 MA's), (12, 72819), (16, 72924), (22, 73050), (26, 73107), (30, 73134), (31, 73140), (35, 73167), (43, 73236), (44, 73239), (45, 73260), (75, 73812), (81, 73872), (82, 73896), (90, 73968), (108, 74169), (113, 74199), (125, 74304), (129, 74379), (134, 74412), (139, 74451), (142, 74460), (144, 74475), (153, 74577), (156, 74592), (160, 74622), (171, 74880), (176, 74949), (180, 75015), (186, 75126),

Gene: Pupusa\_138 Start: 73663, Stop: 75921, Start Num: 6

Candidate Starts for Pupusa\_138:

(Start: 4 @73654 has 52 MA's), (Start: 6 @73663 has 136 MA's), (7, 73702), (9, 73771), (10, 73780), (14, 73876), (16, 73897), (17, 73906), (18, 73927), (21, 73963), (27, 74047), (31, 74056), (43, 74131), (44, 74134), (45, 74155), (47, 74176), (49, 74191), (50, 74200), (51, 74239), (54, 74269), (57, 74407), (58, 74410), (73, 74578), (82, 74677), (84, 74704), (86, 74728), (92, 74776), (93, 74782), (96, 74827), (98, 74836), (99, 74857), (100, 74863), (102, 74881), (105, 74920), (111, 74962), (128, 75130), (131, 75172), (132, 75178), (136, 75199), (137, 75223), (149, 75310), (153, 75352), (156, 75367), (157, 75370), (159, 75373), (162, 75451), (166, 75541), (174, 75643), (179, 75730), (181, 75748), (184, 75772),

Gene: PurduePete\_132 Start: 72699, Stop: 74966, Start Num: 4

Candidate Starts for PurduePete\_132:

(Start: 4 @72699 has 52 MA's), (Start: 6 @72708 has 136 MA's), (7, 72747), (9, 72816), (10, 72825), (14, 72921), (16, 72942), (17, 72951), (18, 72972), (21, 73008), (27, 73092), (31, 73101), (43, 73176), (44, 73179), (45, 73200), (47, 73221), (49, 73236), (50, 73245), (51, 73284), (54, 73314), (57, 73452), (58, 73455), (73, 73623), (82, 73722), (84, 73749), (86, 73773), (92, 73821), (93, 73827), (96, 73872), (98, 73881), (99, 73902), (100, 73908), (102, 73926), (105, 73965), (111, 74007), (128, 74175), (131, 74217), (132, 74223), (136, 74244), (137, 74268), (149, 74355), (153, 74397), (156, 74412), (157, 74415), (159, 74418), (162, 74496), (166, 74586), (174, 74688), (179, 74775), (181, 74793), (184, 74817),

Gene: QBert\_126 Start: 71289, Stop: 73556, Start Num: 4

Candidate Starts for QBert\_126:

(Start: 4 @71289 has 52 MA's), (Start: 6 @71298 has 136 MA's), (7, 71337), (9, 71406), (10, 71415), (14, 71511), (16, 71532), (17, 71541), (18, 71562), (21, 71598), (27, 71682), (31, 71691), (43, 71766), (44, 71769), (45, 71790), (47, 71811), (49, 71826), (50, 71835), (51, 71874), (54, 71904), (57, 72042), (58, 72045), (73, 72213), (79, 72264), (82, 72312), (84, 72339), (86, 72363), (92, 72411), (93, 72417), (96, 72462), (98, 72471), (99, 72492), (100, 72498), (102, 72516), (105, 72555), (111, 72597), (128, 72765), (131, 72807), (132, 72813), (136, 72834), (137, 72858), (149, 72945), (153, 72987), (156, 73002), (157, 73005), (159, 73008), (162, 73086), (166, 73176), (174, 73278), (179, 73365), (181, 73383), (184, 73407),

Gene: Quasimodo\_134 Start: 72722, Stop: 74980, Start Num: 6

Candidate Starts for Quasimodo\_134:

(Start: 4 @72713 has 52 MA's), (Start: 6 @72722 has 136 MA's), (7, 72761), (9, 72830), (10, 72839), (14, 72935), (16, 72956), (17, 72965), (18, 72986), (21, 73022), (27, 73106), (31, 73115), (43, 73190), (44, 73193), (45, 73214), (47, 73235), (49, 73250), (50, 73259), (51, 73298), (54, 73328), (57, 73466), (58, 73469), (73, 73637), (82, 73736), (84, 73763), (86, 73787), (92, 73835), (93, 73841), (96, 73886), (98, 73895), (99, 73916), (100, 73922), (102, 73940), (105, 73979), (111, 74021), (128, 74189), (131, 74231), (132, 74237), (136, 74258), (137, 74282), (149, 74369), (153, 74411), (156, 74426), (157, 74429), (159, 74432), (162, 74510), (166, 74600), (174, 74702), (179, 74789), (181, 74807), (184, 74831),

Gene: Rabinovish\_131 Start: 72906, Stop: 75164, Start Num: 6

Candidate Starts for Rabinovish\_131:

(Start: 4 @72897 has 52 MA's), (Start: 6 @72906 has 136 MA's), (7, 72945), (9, 73014), (10, 73023), (14, 73119), (16, 73140), (17, 73149), (18, 73170), (21, 73206), (27, 73290), (31, 73299), (43, 73374), (44, 73377), (45, 73398), (47, 73419), (49, 73434), (50, 73443), (51, 73482), (54, 73512), (57, 73650), (58, 73653), (73, 73821), (82, 73920), (84, 73947), (86, 73971), (92, 74019), (93, 74025), (96, 74070), (98, 74079), (99, 74100), (100, 74106), (102, 74124), (105, 74163), (111, 74205), (131, 74415), (132, 74421), (136, 74442), (137, 74466), (149, 74553), (153, 74595), (156, 74610), (157, 74613), (159, 74616), (162, 74694), (166, 74784), (174, 74886), (179, 74973), (181, 74991), (184, 75015),

Gene: Rahel\_131 Start: 71174, Stop: 73441, Start Num: 4

Candidate Starts for Rahel\_131:

(Start: 4 @71174 has 52 MA's), (Start: 6 @71183 has 136 MA's), (7, 71222), (9, 71291), (10, 71300), (14, 71396), (16, 71417), (17, 71426), (18, 71447), (21, 71483), (27, 71567), (31, 71576), (43, 71651), (44, 71654), (45, 71675), (47, 71696), (49, 71711), (50, 71720), (51, 71759), (54, 71789), (57, 71927), (58, 71930), (73, 72098), (79, 72149), (82, 72197), (84, 72224), (86, 72248), (92, 72296), (93, 72302), (96, 72347), (98, 72356), (99, 72377), (100, 72383), (102, 72401), (105, 72440), (111, 72482), (130, 72674), (131, 72692), (132, 72698), (136, 72719), (137, 72743), (149, 72830), (153, 72872), (156, 72887), (157, 72890), (159, 72893), (162, 72971), (166, 73061), (174, 73163), (179, 73250), (181, 73268), (184, 73292),

Gene: Rizal\_127 Start: 70331, Stop: 72589, Start Num: 6

Candidate Starts for Rizal\_127:

(Start: 4 @70322 has 52 MA's), (Start: 6 @70331 has 136 MA's), (7, 70370), (9, 70439), (10, 70448), (14, 70544), (16, 70565), (17, 70574), (18, 70595), (21, 70631), (27, 70715), (31, 70724), (43, 70799), (44, 70802), (45, 70823), (47, 70844), (49, 70859), (50, 70868), (51, 70907), (54, 70937), (57, 71075), (58, 71078), (73, 71246), (82, 71345), (84, 71372), (86, 71396), (92, 71444), (93, 71450), (96, 71495), (98, 71504), (99, 71525), (100, 71531), (102, 71549), (105, 71588), (111, 71630), (128, 71798), (131, 71840), (132, 71846), (136, 71867), (137, 71891), (149, 71978), (153, 72020), (156, 72035), (157, 72038), (159, 72041), (162, 72119), (166, 72209), (174, 72311), (179, 72398), (181, 72416), (184, 72440),

Gene: RoMag\_127 Start: 71486, Stop: 73753, Start Num: 4

Candidate Starts for RoMag\_127:

(Start: 4 @71486 has 52 MA's), (Start: 6 @71495 has 136 MA's), (7, 71534), (9, 71603), (10, 71612), (14, 71708), (16, 71729), (17, 71738), (18, 71759), (21, 71795), (27, 71879), (31, 71888), (43, 71963), (44, 71966), (45, 71987), (47, 72008), (49, 72023), (50, 72032), (51, 72071), (54, 72101), (57, 72239), (58, 72242), (73, 72410), (82, 72509), (84, 72536), (86, 72560), (92, 72608), (93, 72614), (96, 72659), (98, 72668), (99, 72689), (100, 72695), (102, 72713), (105, 72752), (111, 72794), (128, 72962), (131, 73004), (132, 73010), (136, 73031), (137, 73055), (149, 73142), (153, 73184), (156, 73199), (157, 73202), (159, 73205), (162, 73283), (166, 73373), (174, 73475), (179, 73562), (181, 73580), (184, 73604),

Gene: Rocha\_130 Start: 71748, Stop: 74006, Start Num: 6

Candidate Starts for Rocha\_130:

(Start: 4 @71739 has 52 MA's), (Start: 6 @71748 has 136 MA's), (7, 71787), (9, 71856), (10, 71865), (14, 71961), (16, 71982), (17, 71991), (18, 72012), (21, 72048), (27, 72132), (31, 72141), (43, 72216), (44, 72219), (45, 72240), (47, 72261), (49, 72276), (50, 72285), (51, 72324), (54, 72354), (57, 72492), (58, 72495), (73, 72663), (82, 72762), (84, 72789), (86, 72813), (92, 72861), (93, 72867), (96, 72912), (98, 72921), (99, 72942), (100, 72948), (102, 72966), (105, 73005), (111, 73047), (128, 73215), (131, 73257), (132, 73263), (136, 73284), (137, 73308), (149, 73395), (153, 73437), (156, 73452), (157, 73455), (159, 73458), (162, 73536), (166, 73626), (174, 73728), (179, 73815), (181, 73833), (184, 73857),

Gene: Ronan\_126 Start: 69444, Stop: 71702, Start Num: 6

Candidate Starts for Ronan\_126:

(Start: 4 @69435 has 52 MA's), (Start: 6 @69444 has 136 MA's), (7, 69483), (9, 69552), (10, 69561), (14, 69657), (16, 69678), (17, 69687), (18, 69708), (21, 69744), (27, 69828), (31, 69837), (43, 69912), (44, 69915), (45, 69936), (47, 69957), (49, 69972), (50, 69981), (51, 70020), (54, 70050), (57, 70188), (58, 70191), (73, 70359), (79, 70410), (82, 70458), (84, 70485), (86, 70509), (92, 70557), (93, 70563), (96, 70608), (98, 70617), (99, 70638), (100, 70644), (102, 70662), (105, 70701), (111, 70743), (130, 70935), (131, 70953), (132, 70959), (136, 70980), (137, 71004), (149, 71091), (153, 71133), (156, 71148), (157, 71151), (159, 71154), (162, 71232), (166, 71322), (174, 71424), (179, 71511), (181, 71529), (184, 71553),

Gene: Roots515\_131 Start: 72960, Stop: 75218, Start Num: 6

Candidate Starts for Roots515\_131:

(Start: 4 @72951 has 52 MA's), (Start: 6 @72960 has 136 MA's), (7, 72999), (9, 73068), (10, 73077), (14, 73173), (16, 73194), (17, 73203), (18, 73224), (21, 73260), (27, 73344), (31, 73353), (43, 73428), (44, 73431), (45, 73452), (47, 73473), (49, 73488), (50, 73497), (51, 73536), (54, 73566), (57, 73704), (58, 73707), (73, 73875), (79, 73926), (82, 73974), (84, 74001), (86, 74025), (92, 74073), (93, 74079), (96, 74124), (98, 74133), (99, 74154), (100, 74160), (102, 74178), (105, 74217), (111, 74259), (130, 74451), (131, 74469), (132, 74475), (136, 74496), (137, 74520), (149, 74607), (153, 74649), (156, 74664), (157, 74667), (159, 74670), (162, 74748), (166, 74838), (174, 74940), (179, 75027), (181, 75045), (184, 75069),

Gene: SCentae\_118 Start: 72795, Stop: 75347, Start Num: 1

Candidate Starts for SCentae\_118:

(Start: 1 @72795 has 1 MA's), (Start: 6 @72837 has 136 MA's), (10, 72957), (12, 72969), (26, 73260), (30, 73287), (31, 73293), (35, 73320), (43, 73389), (44, 73392), (45, 73413), (75, 73965), (79, 74001), (81, 74025), (82, 74049), (90, 74121), (101, 74259), (113, 74352), (125, 74457), (129, 74532), (142, 74613), (144, 74628), (150, 74715), (153, 74730), (160, 74775), (161, 74778), (171, 75030), (176, 75099), (180, 75168), (186, 75279),

Gene: SVoro\_130 Start: 72668, Stop: 74926, Start Num: 6

Candidate Starts for SVoro\_130:

(Start: 4 @72659 has 52 MA's), (Start: 6 @72668 has 136 MA's), (7, 72707), (9, 72776), (10, 72785), (14, 72881), (16, 72902), (17, 72911), (18, 72932), (21, 72968), (27, 73052), (31, 73061), (43, 73136), (44, 73139), (45, 73160), (47, 73181), (49, 73196), (50, 73205), (51, 73244), (54, 73274), (57, 73412), (58, 73415), (73, 73583), (79, 73634), (82, 73682), (84, 73709), (86, 73733), (92, 73781), (93, 73787), (96, 73832), (98, 73841), (99, 73862), (100, 73868), (102, 73886), (105, 73925), (111, 73967), (128, 74135), (131, 74177), (132, 74183), (136, 74204), (137, 74228), (149, 74315), (153, 74357), (156, 74372), (157, 74375), (159, 74378), (162, 74456), (166, 74546), (174, 74648), (179, 74735), (181, 74753), (184, 74777),

Gene: Salacia\_136 Start: 72622, Stop: 74880, Start Num: 6

Candidate Starts for Salacia\_136:

(Start: 4 @72613 has 52 MA's), (Start: 6 @72622 has 136 MA's), (7, 72661), (9, 72730), (10, 72739), (14, 72835), (16, 72856), (17, 72865), (18, 72886), (21, 72922), (27, 73006), (31, 73015), (43, 73090), (44, 73093), (45, 73114), (47, 73135), (49, 73150), (50, 73159), (51, 73198), (54, 73228), (57, 73366), (58, 73369), (73, 73537), (82, 73636), (84, 73663), (86, 73687), (92, 73735), (93, 73741), (96, 73786), (98, 73795), (99, 73816), (100, 73822), (102, 73840), (105, 73879), (111, 73921), (128, 74089), (131, 74131), (132, 74137), (136, 74158), (137, 74182), (149, 74269), (153, 74311), (156, 74326), (157, 74329), (159, 74332), (162, 74410), (166, 74500), (174, 74602), (179, 74689), (181, 74707), (184, 74731),

Gene: Sauce\_132 Start: 71238, Stop: 73496, Start Num: 6

Candidate Starts for Sauce\_132:

(Start: 4 @71229 has 52 MA's), (Start: 6 @71238 has 136 MA's), (7, 71277), (9, 71346), (10, 71355), (14, 71451), (16, 71472), (17, 71481), (18, 71502), (21, 71538), (27, 71622), (31, 71631), (43, 71706), (44, 71709), (45, 71730), (47, 71751), (49, 71766), (50, 71775), (51, 71814), (54, 71844), (57, 71982), (58, 71985), (73, 72153), (82, 72252), (84, 72279), (86, 72303), (92, 72351), (93, 72357), (96, 72402), (98, 72411), (99, 72432), (100, 72438), (102, 72456), (105, 72495), (111, 72537), (128, 72705), (131, 72747), (132, 72753), (136, 72774), (137, 72798), (149, 72885), (153, 72927), (156, 72942), (157, 72945), (159, 72948), (162, 73026), (166, 73116), (174, 73218), (179, 73305), (181, 73323), (184, 73347),

Gene: ScoobyDoobyDoo\_124 Start: 71962, Stop: 74271, Start Num: 4

Candidate Starts for ScoobyDoobyDoo\_124:

(3, 71953), (Start: 4 @71962 has 52 MA's), (17, 72214), (18, 72235), (21, 72274), (25, 72337), (28, 72358), (35, 72367), (37, 72379), (38, 72388), (40, 72391), (41, 72394), (42, 72409), (43, 72421), (48, 72469), (49, 72481), (59, 72715), (60, 72721), (64, 72766), (71, 72883), (77, 72946), (78, 72949), (79, 72964), (85, 73051), (88, 73072), (98, 73171), (99, 73192), (100, 73198), (104, 73252), (106, 73267), (109, 73279), (114, 73318), (119, 73357), (121, 73366), (123, 73375), (127, 73441), (128, 73459), (130, 73483), (133, 73510), (137, 73552), (138, 73558), (140, 73564), (141, 73567), (143, 73582), (147, 73630), (151, 73681), (152, 73684), (158, 73705), (169, 73897), (173, 73966), (175, 74002), (177, 74056), (181, 74086), (183, 74107), (184, 74110), (185, 74173), (188, 74200),

Gene: ScottMcG\_128 Start: 71244, Stop: 73502, Start Num: 6

Candidate Starts for ScottMcG\_128:

(Start: 4 @71235 has 52 MA's), (Start: 6 @71244 has 136 MA's), (7, 71283), (9, 71352), (10, 71361), (14, 71457), (16, 71478), (17, 71487), (18, 71508), (21, 71544), (27, 71628), (31, 71637), (43, 71712), (44, 71715), (45, 71736), (47, 71757), (49, 71772), (50, 71781), (51, 71820), (54, 71850), (57, 71988), (58, 71991), (73, 72159), (82, 72258), (84, 72285), (86, 72309), (92, 72357), (93, 72363), (96, 72408), (98, 72417), (99, 72438), (100, 72444), (102, 72462), (105, 72501), (111, 72543), (128, 72711), (131, 72753), (132, 72759), (136, 72780), (137, 72804), (149, 72891), (153, 72933), (156, 72948), (157, 72951), (159, 72954), (162, 73032), (166, 73122), (174, 73224), (179, 73311), (181, 73329), (184,

73353),

Gene: Sebata\_132 Start: 72707, Stop: 74965, Start Num: 6

Candidate Starts for Sebata\_132:

(Start: 4 @72698 has 52 MA's), (Start: 6 @72707 has 136 MA's), (7, 72746), (9, 72815), (10, 72824), (14, 72920), (16, 72941), (17, 72950), (18, 72971), (21, 73007), (27, 73091), (31, 73100), (43, 73175), (44, 73178), (45, 73199), (47, 73220), (49, 73235), (50, 73244), (51, 73283), (54, 73313), (57, 73451), (58, 73454), (73, 73622), (82, 73721), (84, 73748), (86, 73772), (92, 73820), (93, 73826), (96, 73871), (98, 73880), (99, 73901), (100, 73907), (102, 73925), (105, 73964), (111, 74006), (131, 74216), (132, 74222), (136, 74243), (137, 74267), (149, 74354), (153, 74396), (156, 74411), (157, 74414), (159, 74417), (162, 74495), (166, 74585), (174, 74687), (179, 74774), (181, 74792), (184, 74816),

Gene: Settecandela\_78 Start: 54728, Stop: 57052, Start Num: 4

Candidate Starts for Settecandela\_78:

(Start: 4 @54728 has 52 MA's), (5, 54734), (20, 55043), (23, 55115), (24, 55139), (34, 55193), (46, 55280), (53, 55379), (61, 55586), (62, 55589), (63, 55607), (67, 55634), (68, 55655), (69, 55670), (70, 55676), (76, 55763), (80, 55796), (81, 55802), (89, 55889), (91, 55916), (95, 55970), (98, 55982), (103, 56027), (108, 56081), (109, 56084), (112, 56105), (117, 56159), (120, 56171), (124, 56207), (129, 56285), (146, 56411), (154, 56486), (164, 56654), (167, 56669), (170, 56723), (172, 56753), (180, 56870), (181, 56882), (187, 56993),

Gene: Shaqnato\_125 Start: 70279, Stop: 72546, Start Num: 4

Candidate Starts for Shaqnato\_125:

(Start: 4 @70279 has 52 MA's), (Start: 6 @70288 has 136 MA's), (7, 70327), (9, 70396), (10, 70405), (14, 70501), (16, 70522), (17, 70531), (18, 70552), (21, 70588), (27, 70672), (31, 70681), (43, 70756), (44, 70759), (45, 70780), (47, 70801), (49, 70816), (50, 70825), (51, 70864), (54, 70894), (57, 71032), (58, 71035), (73, 71203), (79, 71254), (82, 71302), (84, 71329), (86, 71353), (92, 71401), (93, 71407), (96, 71452), (98, 71461), (99, 71482), (100, 71488), (102, 71506), (105, 71545), (111, 71587), (130, 71779), (131, 71797), (132, 71803), (136, 71824), (137, 71848), (149, 71935), (153, 71977), (156, 71992), (157, 71995), (159, 71998), (162, 72076), (166, 72166), (174, 72268), (179, 72355), (181, 72373), (184, 72397),

Gene: Shelob\_134 Start: 73081, Stop: 75348, Start Num: 4

Candidate Starts for Shelob\_134:

(Start: 4 @73081 has 52 MA's), (Start: 6 @73090 has 136 MA's), (7, 73129), (9, 73198), (10, 73207), (14, 73303), (16, 73324), (17, 73333), (18, 73354), (21, 73390), (27, 73474), (31, 73483), (43, 73558), (44, 73561), (45, 73582), (47, 73603), (49, 73618), (50, 73627), (51, 73666), (54, 73696), (57, 73834), (58, 73837), (73, 74005), (82, 74104), (84, 74131), (86, 74155), (92, 74203), (93, 74209), (96, 74254), (98, 74263), (99, 74284), (100, 74290), (102, 74308), (105, 74347), (111, 74389), (128, 74557), (131, 74599), (132, 74605), (136, 74626), (137, 74650), (149, 74737), (153, 74779), (156, 74794), (157, 74797), (159, 74800), (162, 74878), (166, 74968), (174, 75070), (179, 75157), (181, 75175), (184, 75199),

Gene: ShiaLabeouf\_131 Start: 71618, Stop: 73876, Start Num: 6

Candidate Starts for ShiaLabeouf\_131:

(Start: 4 @71609 has 52 MA's), (Start: 6 @71618 has 136 MA's), (7, 71657), (9, 71726), (10, 71735), (14, 71831), (16, 71852), (17, 71861), (18, 71882), (21, 71918), (27, 72002), (31, 72011), (43, 72086), (44, 72089), (45, 72110), (47, 72131), (49, 72146), (50, 72155), (51, 72194), (54, 72224), (57, 72362), (58, 72365), (73, 72533), (79, 72584), (82, 72632), (84, 72659), (86, 72683), (92, 72731), (93, 72737), (96, 72782), (98, 72791), (99, 72812), (100, 72818), (102, 72836), (105, 72875), (111, 72917), (130, 73109), (131, 73127), (132, 73133), (136, 73154), (137, 73178), (149, 73265), (153, 73307), (156, 73322), (157, 73325), (159, 73328), (162, 73406), (166, 73496), (174, 73598), (179, 73685), (181, 73703), (184, 73727),

Gene: Shifa\_121 Start: 70514, Stop: 72772, Start Num: 6

Candidate Starts for Shifa\_121:

(Start: 4 @70505 has 52 MA's), (Start: 6 @70514 has 136 MA's), (7, 70553), (9, 70622), (10, 70631), (14, 70727), (16, 70748), (17, 70757), (18, 70778), (21, 70814), (27, 70898), (31, 70907), (43, 70982), (44, 70985), (45, 71006), (47, 71027), (49, 71042), (50, 71051), (51, 71090), (54, 71120), (57, 71258), (58, 71261), (73, 71429), (82, 71528), (84, 71555), (86, 71579), (92, 71627), (93, 71633), (96, 71678), (98, 71687), (99, 71708), (100, 71714), (102, 71732), (105, 71771), (111, 71813), (128, 71981), (131, 72023), (132, 72029), (136, 72050), (137, 72074), (149, 72161), (153, 72203), (156, 72218), (157, 72221), (159, 72224), (162, 72302), (166, 72392), (174, 72494), (179, 72581), (181, 72599), (184, 72623),

Gene: Shnickers\_132 Start: 71573, Stop: 73840, Start Num: 4

Candidate Starts for Shnickers\_132:

(Start: 4 @71573 has 52 MA's), (Start: 6 @71582 has 136 MA's), (7, 71621), (9, 71690), (10, 71699), (14, 71795), (16, 71816), (17, 71825), (18, 71846), (21, 71882), (27, 71966), (31, 71975), (43, 72050), (44, 72053), (45, 72074), (47, 72095), (49, 72110), (50, 72119), (51, 72158), (54, 72188), (57, 72326), (58, 72329), (73, 72497), (79, 72548), (82, 72596), (84, 72623), (86, 72647), (92, 72695), (93, 72701), (96, 72746), (98, 72755), (99, 72776), (100, 72782), (102, 72800), (105, 72839), (111, 72881), (130, 73073), (131, 73091), (132, 73097), (136, 73118), (137, 73142), (149, 73229), (153, 73271), (156, 73286), (157, 73289), (159, 73292), (162, 73370), (166, 73460), (174, 73562), (179, 73649), (181, 73667), (184, 73691),

Gene: Shrimp\_132 Start: 72302, Stop: 74560, Start Num: 6

Candidate Starts for Shrimp\_132:

(Start: 4 @72293 has 52 MA's), (Start: 6 @72302 has 136 MA's), (7, 72341), (9, 72410), (10, 72419), (14, 72515), (16, 72536), (17, 72545), (18, 72566), (21, 72602), (27, 72686), (31, 72695), (43, 72770), (44, 72773), (45, 72794), (47, 72815), (49, 72830), (50, 72839), (51, 72878), (54, 72908), (57, 73046), (58, 73049), (73, 73217), (82, 73316), (84, 73343), (86, 73367), (92, 73415), (93, 73421), (96, 73466), (98, 73475), (99, 73496), (100, 73502), (102, 73520), (105, 73559), (111, 73601), (128, 73769), (131, 73811), (132, 73817), (136, 73838), (137, 73862), (149, 73949), (153, 73991), (156, 74006), (157, 74009), (159, 74012), (162, 74090), (166, 74180), (174, 74282), (179, 74369), (181, 74387), (184, 74411),

Gene: SilverDipper\_134 Start: 71305, Stop: 73563, Start Num: 6

Candidate Starts for SilverDipper\_134:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Skog\_181 Start: 102669, Stop: 105125, Start Num: 6

Candidate Starts for Skog\_181:

(Start: 1 @102627 has 1 MA's), (2, 102636), (Start: 6 @102669 has 136 MA's), (12, 102801), (18, 102936), (26, 103086), (29, 103104), (31, 103119), (35, 103146), (39, 103182), (43, 103215), (44, 103218), (45, 103239), (52, 103347), (55, 103410), (56, 103437), (74, 103728), (81, 103797), (93, 103926), (110, 104106), (113, 104124), (115, 104148), (129, 104304), (139, 104385), (153, 104511), (155, 104520), (156, 104526), (160, 104556), (178, 104934), (180, 104946), (183, 104979), (186, 105057),

Gene: SmallFry\_132 Start: 70798, Stop: 73065, Start Num: 4

Candidate Starts for SmallFry\_132:

(Start: 4 @70798 has 52 MA's), (Start: 6 @70807 has 136 MA's), (7, 70846), (9, 70915), (10, 70924), (14, 71020), (16, 71041), (17, 71050), (18, 71071), (21, 71107), (27, 71191), (31, 71200), (43, 71275), (44, 71278), (45, 71299), (47, 71320), (49, 71335), (50, 71344), (51, 71383), (54, 71413), (57, 71551), (58, 71554), (73, 71722), (79, 71773), (82, 71821), (84, 71848), (86, 71872), (92, 71920), (93, 71926), (96, 71971), (98, 71980), (99, 72001), (100, 72007), (102, 72025), (105, 72064), (111, 72106), (130, 72298), (131, 72316), (132, 72322), (136, 72343), (137, 72367), (149, 72454), (153, 72496), (156, 72511), (157, 72514), (159, 72517), (162, 72595), (166, 72685), (174, 72787), (179, 72874), (181, 72892), (184, 72916),

Gene: Spec\_128 Start: 71347, Stop: 73605, Start Num: 6

Candidate Starts for Spec\_128:

(Start: 4 @71338 has 52 MA's), (Start: 6 @71347 has 136 MA's), (7, 71386), (9, 71455), (10, 71464), (14, 71560), (16, 71581), (17, 71590), (18, 71611), (21, 71647), (27, 71731), (31, 71740), (43, 71815), (44, 71818), (45, 71839), (47, 71860), (49, 71875), (50, 71884), (51, 71923), (54, 71953), (57, 72091), (58, 72094), (73, 72262), (79, 72313), (82, 72361), (84, 72388), (86, 72412), (92, 72460), (93, 72466), (96, 72511), (98, 72520), (99, 72541), (100, 72547), (102, 72565), (105, 72604), (111, 72646), (130, 72838), (131, 72856), (132, 72862), (136, 72883), (137, 72907), (149, 72994), (153, 73036), (156, 73051), (157, 73054), (159, 73057), (162, 73135), (166, 73225), (174, 73327), (179, 73414), (181, 73432), (184, 73456),

Gene: Specks\_137 Start: 73463, Stop: 75730, Start Num: 4

Candidate Starts for Specks\_137:

(Start: 4 @73463 has 52 MA's), (Start: 6 @73472 has 136 MA's), (7, 73511), (9, 73580), (10, 73589), (14, 73685), (16, 73706), (17, 73715), (18, 73736), (21, 73772), (27, 73856), (31, 73865), (43, 73940), (44, 73943), (45, 73964), (47, 73985), (49, 74000), (50, 74009), (51, 74048), (54, 74078), (57, 74216), (58, 74219), (73, 74387), (79, 74438), (82, 74486), (84, 74513), (86, 74537), (92, 74585), (93, 74591), (96, 74636), (98, 74645), (99, 74666), (100, 74672), (102, 74690), (105, 74729), (111, 74771), (130, 74963), (131, 74981), (132, 74987), (136, 75008), (137, 75032), (149, 75119), (153, 75161), (156, 75176), (157, 75179), (159, 75182), (162, 75260), (166, 75350), (174, 75452), (179, 75539), (181, 75557), (184, 75581),

Gene: Sprinklers\_128 Start: 70863, Stop: 73121, Start Num: 6

Candidate Starts for Sprinklers\_128:

(Start: 4 @70854 has 52 MA's), (Start: 6 @70863 has 136 MA's), (7, 70902), (9, 70971), (10, 70980), (14, 71076), (16, 71097), (17, 71106), (18, 71127), (21, 71163), (27, 71247), (31, 71256), (43, 71331), (44, 71334), (45, 71355), (47, 71376), (49, 71391), (50, 71400), (51, 71439), (54, 71469), (57, 71607), (58, 71610), (73, 71778), (79, 71829), (82, 71877), (84, 71904), (86, 71928), (92, 71976), (93, 71982), (96, 72027), (98, 72036), (99, 72057), (100, 72063), (102, 72081), (105, 72120), (111, 72162), (130, 72354), (131, 72372), (132, 72378), (136, 72399), (137, 72423), (149, 72510), (153, 72552), (156, 72567), (157, 72570), (159, 72573), (162, 72651), (166, 72741), (174, 72843), (179, 72930), (181, 72948), (184, 72972),

Gene: Spud\_131 Start: 72368, Stop: 74626, Start Num: 6

Candidate Starts for Spud\_131:

(Start: 4 @72359 has 52 MA's), (Start: 6 @72368 has 136 MA's), (7, 72407), (9, 72476), (10, 72485), (14, 72581), (16, 72602), (17, 72611), (18, 72632), (21, 72668), (27, 72752), (31, 72761), (43, 72836), (44, 72839), (45, 72860), (47, 72881), (49, 72896), (50, 72905), (51, 72944), (54, 72974), (57, 73112), (58, 73115), (73, 73283), (82, 73382), (84, 73409), (86, 73433), (92, 73481), (93, 73487), (96, 73532), (98, 73541), (99, 73562), (100, 73568), (102, 73586), (105, 73625), (111, 73667), (128, 73835), (131, 73877), (132, 73883), (136, 73904), (137, 73928), (149, 74015), (153, 74057), (156, 74072), (157,

74075), (159, 74078), (162, 74156), (166, 74246), (174, 74348), (179, 74435), (181, 74453), (184, 74477),

Gene: SrishMeg2525\_131 Start: 72390, Stop: 74648, Start Num: 6

Candidate Starts for SrishMeg2525\_131:

(Start: 4 @72381 has 52 MA's), (Start: 6 @72390 has 136 MA's), (7, 72429), (9, 72498), (10, 72507), (14, 72603), (16, 72624), (17, 72633), (18, 72654), (21, 72690), (27, 72774), (31, 72783), (43, 72858), (44, 72861), (45, 72882), (47, 72903), (49, 72918), (50, 72927), (51, 72966), (54, 72996), (57, 73134), (58, 73137), (73, 73305), (82, 73404), (84, 73431), (86, 73455), (92, 73503), (93, 73509), (96, 73554), (98, 73563), (99, 73584), (100, 73590), (102, 73608), (105, 73647), (111, 73689), (128, 73857), (131, 73899), (132, 73905), (136, 73926), (137, 73950), (149, 74037), (153, 74079), (156, 74094), (157, 74097), (159, 74100), (162, 74178), (166, 74268), (174, 74370), (179, 74457), (181, 74475), (184, 74499),

Gene: StephanieG\_130 Start: 73200, Stop: 75458, Start Num: 6

Candidate Starts for StephanieG\_130:

(Start: 4 @73191 has 52 MA's), (Start: 6 @73200 has 136 MA's), (7, 73239), (9, 73308), (10, 73317), (14, 73413), (16, 73434), (17, 73443), (18, 73464), (21, 73500), (27, 73584), (31, 73593), (43, 73668), (44, 73671), (45, 73692), (47, 73713), (49, 73728), (50, 73737), (51, 73776), (54, 73806), (57, 73944), (58, 73947), (73, 74115), (82, 74214), (84, 74241), (86, 74265), (92, 74313), (93, 74319), (96, 74364), (98, 74373), (99, 74394), (100, 74400), (102, 74418), (105, 74457), (111, 74499), (128, 74667), (131, 74709), (132, 74715), (136, 74736), (137, 74760), (149, 74847), (153, 74889), (156, 74904), (157, 74907), (159, 74910), (162, 74988), (166, 75078), (174, 75180), (179, 75267), (181, 75285), (184, 75309),

Gene: Stubby\_125 Start: 70821, Stop: 73088, Start Num: 4

Candidate Starts for Stubby\_125:

(Start: 4 @70821 has 52 MA's), (Start: 6 @70830 has 136 MA's), (7, 70869), (9, 70938), (10, 70947), (14, 71043), (16, 71064), (17, 71073), (18, 71094), (21, 71130), (27, 71214), (31, 71223), (43, 71298), (44, 71301), (45, 71322), (47, 71343), (49, 71358), (50, 71367), (51, 71406), (54, 71436), (57, 71574), (58, 71577), (73, 71745), (82, 71844), (84, 71871), (86, 71895), (92, 71943), (93, 71949), (96, 71994), (98, 72003), (99, 72024), (100, 72030), (102, 72048), (105, 72087), (111, 72129), (131, 72339), (132, 72345), (136, 72366), (137, 72390), (149, 72477), (153, 72519), (156, 72534), (157, 72537), (159, 72540), (162, 72618), (166, 72708), (174, 72810), (179, 72897), (181, 72915), (184, 72939),

Gene: StubbySaigey\_136 Start: 71465, Stop: 73723, Start Num: 6

Candidate Starts for StubbySaigey\_136:

(Start: 4 @71456 has 52 MA's), (Start: 6 @71465 has 136 MA's), (7, 71504), (9, 71573), (10, 71582), (14, 71678), (16, 71699), (17, 71708), (18, 71729), (21, 71765), (27, 71849), (31, 71858), (43, 71933), (44, 71936), (45, 71957), (47, 71978), (49, 71993), (50, 72002), (51, 72041), (54, 72071), (57, 72209), (58, 72212), (73, 72380), (82, 72479), (84, 72506), (86, 72530), (92, 72578), (93, 72584), (96, 72629), (98, 72638), (99, 72659), (100, 72665), (102, 72683), (105, 72722), (111, 72764), (128, 72932), (131, 72974), (132, 72980), (136, 73001), (137, 73025), (149, 73112), (153, 73154), (156, 73169), (157, 73172), (159, 73175), (162, 73253), (166, 73343), (174, 73445), (179, 73532), (181, 73550), (184, 73574),

Gene: Substance289\_130 Start: 71100, Stop: 73358, Start Num: 6

Candidate Starts for Substance289\_130:

(Start: 4 @71091 has 52 MA's), (Start: 6 @71100 has 136 MA's), (7, 71139), (9, 71208), (10, 71217), (14, 71313), (16, 71334), (17, 71343), (18, 71364), (21, 71400), (27, 71484), (31, 71493), (43, 71568), (44, 71571), (45, 71592), (47, 71613), (49, 71628), (50, 71637), (51, 71676), (54, 71706), (57, 71844), (58, 71847), (73, 72015), (79, 72066), (82, 72114), (84, 72141), (86, 72165), (92, 72213), (93, 72219), (96, 72264), (98, 72273), (99, 72294), (100, 72300), (102, 72318), (105, 72357), (111, 72399), (130,

72591), (131, 72609), (132, 72615), (136, 72636), (137, 72660), (149, 72747), (153, 72789), (156, 72804), (157, 72807), (159, 72810), (162, 72888), (166, 72978), (174, 73080), (179, 73167), (181, 73185), (184, 73209),

Gene: Tainan\_135 Start: 72795, Stop: 75053, Start Num: 6

Candidate Starts for Tainan\_135:

(Start: 4 @72786 has 52 MA's), (Start: 6 @72795 has 136 MA's), (7, 72834), (9, 72903), (10, 72912), (14, 73008), (16, 73029), (17, 73038), (18, 73059), (21, 73095), (27, 73179), (31, 73188), (43, 73263), (44, 73266), (45, 73287), (47, 73308), (49, 73323), (50, 73332), (51, 73371), (54, 73401), (57, 73539), (58, 73542), (73, 73710), (82, 73809), (84, 73836), (86, 73860), (92, 73908), (93, 73914), (96, 73959), (98, 73968), (99, 73989), (100, 73995), (102, 74013), (105, 74052), (111, 74094), (128, 74262), (131, 74304), (132, 74310), (136, 74331), (137, 74355), (149, 74442), (153, 74484), (156, 74499), (157, 74502), (159, 74505), (162, 74583), (166, 74673), (174, 74775), (179, 74862), (181, 74880), (184, 74904),

Gene: Teardrop\_131 Start: 70787, Stop: 73054, Start Num: 4

Candidate Starts for Teardrop\_131:

(Start: 4 @70787 has 52 MA's), (Start: 6 @70796 has 136 MA's), (7, 70835), (9, 70904), (10, 70913), (14, 71009), (16, 71030), (17, 71039), (18, 71060), (21, 71096), (27, 71180), (31, 71189), (43, 71264), (44, 71267), (45, 71288), (47, 71309), (49, 71324), (50, 71333), (51, 71372), (54, 71402), (57, 71540), (58, 71543), (73, 71711), (79, 71762), (82, 71810), (84, 71837), (86, 71861), (92, 71909), (93, 71915), (96, 71960), (98, 71969), (99, 71990), (100, 71996), (102, 72014), (105, 72053), (111, 72095), (130, 72287), (131, 72305), (132, 72311), (136, 72332), (137, 72356), (149, 72443), (153, 72485), (156, 72500), (157, 72503), (159, 72506), (162, 72584), (166, 72674), (174, 72776), (179, 72863), (181, 72881), (184, 72905),

Gene: TinyTim\_132 Start: 72048, Stop: 74306, Start Num: 6

Candidate Starts for TinyTim\_132:

(Start: 4 @72039 has 52 MA's), (Start: 6 @72048 has 136 MA's), (7, 72087), (9, 72156), (10, 72165), (14, 72261), (16, 72282), (17, 72291), (18, 72312), (21, 72348), (27, 72432), (31, 72441), (43, 72516), (44, 72519), (45, 72540), (47, 72561), (49, 72576), (50, 72585), (51, 72624), (54, 72654), (57, 72792), (58, 72795), (73, 72963), (82, 73062), (84, 73089), (86, 73113), (92, 73161), (93, 73167), (96, 73212), (98, 73221), (99, 73242), (100, 73248), (102, 73266), (105, 73305), (111, 73347), (128, 73515), (131, 73557), (132, 73563), (136, 73584), (137, 73608), (149, 73695), (153, 73737), (156, 73752), (157, 73755), (159, 73758), (162, 73836), (166, 73926), (174, 74028), (179, 74115), (181, 74133), (184, 74157),

Gene: Tonenili\_145 Start: 74823, Stop: 77069, Start Num: 6

Candidate Starts for Tonenili\_145:

(Start: 6 @74823 has 136 MA's), (9, 74931), (10, 74940), (14, 75036), (16, 75057), (17, 75066), (18, 75087), (27, 75201), (36, 75231), (43, 75285), (44, 75288), (45, 75309), (47, 75330), (48, 75333), (49, 75345), (51, 75393), (54, 75423), (57, 75561), (58, 75564), (73, 75732), (86, 75882), (92, 75930), (93, 75936), (94, 75942), (96, 75981), (98, 75990), (99, 76011), (102, 76035), (107, 76092), (110, 76107), (111, 76116), (116, 76161), (118, 76179), (122, 76194), (126, 76233), (128, 76284), (131, 76326), (132, 76332), (133, 76335), (135, 76347), (137, 76377), (153, 76506), (156, 76521), (159, 76527), (162, 76608), (166, 76698), (179, 76884), (182, 76914), (184, 76926),

Gene: Tortoise16\_129 Start: 71398, Stop: 73665, Start Num: 4

Candidate Starts for Tortoise16\_129:

(Start: 4 @71398 has 52 MA's), (Start: 6 @71407 has 136 MA's), (7, 71446), (9, 71515), (10, 71524), (14, 71620), (16, 71641), (17, 71650), (18, 71671), (21, 71707), (27, 71791), (31, 71800), (43, 71875), (44, 71878), (45, 71899), (47, 71920), (49, 71935), (50, 71944), (51, 71983), (54, 72013), (57, 72151), (58, 72154), (73, 72322), (82, 72421), (84, 72448), (86, 72472), (92, 72520), (93, 72526), (96, 72571),

(98, 72580), (99, 72601), (100, 72607), (102, 72625), (105, 72664), (111, 72706), (128, 72874), (131, 72916), (132, 72922), (136, 72943), (137, 72967), (149, 73054), (153, 73096), (156, 73111), (157, 73114), (159, 73117), (162, 73195), (166, 73285), (174, 73387), (179, 73474), (181, 73492), (184, 73516),

Gene: Trinitium\_130 Start: 71231, Stop: 73489, Start Num: 6

Candidate Starts for Trinitium\_130:

(Start: 4 @71222 has 52 MA's), (Start: 6 @71231 has 136 MA's), (7, 71270), (9, 71339), (10, 71348), (14, 71444), (16, 71465), (17, 71474), (18, 71495), (21, 71531), (27, 71615), (31, 71624), (43, 71699), (44, 71702), (45, 71723), (47, 71744), (49, 71759), (50, 71768), (51, 71807), (54, 71837), (57, 71975), (58, 71978), (73, 72146), (82, 72245), (84, 72272), (86, 72296), (92, 72344), (93, 72350), (96, 72395), (98, 72404), (99, 72425), (100, 72431), (102, 72449), (105, 72488), (111, 72530), (128, 72698), (131, 72740), (132, 72746), (136, 72767), (137, 72791), (149, 72878), (153, 72920), (156, 72935), (157, 72938), (159, 72941), (162, 73019), (166, 73109), (174, 73211), (179, 73298), (181, 73316), (184, 73340),

Gene: Turret\_128 Start: 70676, Stop: 72934, Start Num: 6

Candidate Starts for Turret\_128:

(Start: 4 @70667 has 52 MA's), (Start: 6 @70676 has 136 MA's), (7, 70715), (9, 70784), (10, 70793), (14, 70889), (16, 70910), (17, 70919), (18, 70940), (21, 70976), (27, 71060), (31, 71069), (43, 71144), (44, 71147), (45, 71168), (47, 71189), (49, 71204), (50, 71213), (51, 71252), (54, 71282), (57, 71420), (58, 71423), (73, 71591), (79, 71642), (82, 71690), (84, 71717), (86, 71741), (92, 71789), (93, 71795), (96, 71840), (98, 71849), (99, 71870), (100, 71876), (102, 71894), (105, 71933), (111, 71975), (128, 72143), (131, 72185), (132, 72191), (136, 72212), (137, 72236), (149, 72323), (153, 72365), (156, 72380), (157, 72383), (159, 72386), (162, 72464), (166, 72554), (174, 72656), (179, 72743), (181, 72761), (184, 72785),

Gene: Tyke\_132 Start: 72703, Stop: 74961, Start Num: 6

Candidate Starts for Tyke\_132:

(Start: 4 @72694 has 52 MA's), (Start: 6 @72703 has 136 MA's), (7, 72742), (9, 72811), (10, 72820), (14, 72916), (16, 72937), (17, 72946), (18, 72967), (21, 73003), (27, 73087), (31, 73096), (43, 73171), (44, 73174), (45, 73195), (47, 73216), (49, 73231), (50, 73240), (51, 73279), (54, 73309), (57, 73447), (58, 73450), (73, 73618), (82, 73717), (84, 73744), (86, 73768), (92, 73816), (93, 73822), (96, 73867), (98, 73876), (99, 73897), (100, 73903), (102, 73921), (105, 73960), (111, 74002), (128, 74170), (131, 74212), (132, 74218), (136, 74239), (137, 74263), (149, 74350), (153, 74392), (156, 74407), (157, 74410), (159, 74413), (162, 74491), (166, 74581), (174, 74683), (179, 74770), (181, 74788), (184, 74812),

Gene: ValleyTerrace\_133 Start: 71296, Stop: 73563, Start Num: 4

Candidate Starts for ValleyTerrace\_133:

(Start: 4 @71296 has 52 MA's), (Start: 6 @71305 has 136 MA's), (7, 71344), (9, 71413), (10, 71422), (14, 71518), (16, 71539), (17, 71548), (18, 71569), (21, 71605), (27, 71689), (31, 71698), (43, 71773), (44, 71776), (45, 71797), (47, 71818), (49, 71833), (50, 71842), (51, 71881), (54, 71911), (57, 72049), (58, 72052), (73, 72220), (79, 72271), (82, 72319), (84, 72346), (86, 72370), (92, 72418), (93, 72424), (96, 72469), (98, 72478), (99, 72499), (100, 72505), (102, 72523), (105, 72562), (111, 72604), (130, 72796), (131, 72814), (132, 72820), (136, 72841), (137, 72865), (149, 72952), (153, 72994), (156, 73009), (157, 73012), (159, 73015), (162, 73093), (166, 73183), (174, 73285), (179, 73372), (181, 73390), (184, 73414),

Gene: Vortrix\_144 Start: 74139, Stop: 76382, Start Num: 6

Candidate Starts for Vortrix\_144:

(Start: 6 @74139 has 136 MA's), (9, 74247), (10, 74256), (14, 74352), (16, 74373), (17, 74382), (18, 74403), (27, 74517), (36, 74547), (43, 74601), (44, 74604), (45, 74625), (47, 74646), (48, 74649), (49,

74661), (51, 74709), (54, 74739), (57, 74877), (58, 74880), (73, 75048), (86, 75198), (92, 75246), (93, 75252), (94, 75258), (96, 75297), (98, 75306), (99, 75327), (102, 75351), (107, 75408), (111, 75432), (122, 75510), (126, 75549), (131, 75642), (132, 75648), (133, 75651), (136, 75669), (140, 75705), (145, 75735), (148, 75771), (153, 75822), (156, 75837), (159, 75843), (162, 75921), (166, 76011), (179, 76197), (182, 76227), (184, 76239),

Gene: Wally\_131 Start: 70826, Stop: 73084, Start Num: 6

Candidate Starts for Wally\_131:

(Start: 4 @70817 has 52 MA's), (Start: 6 @70826 has 136 MA's), (7, 70865), (9, 70934), (10, 70943), (14, 71039), (16, 71060), (17, 71069), (18, 71090), (21, 71126), (27, 71210), (31, 71219), (43, 71294), (44, 71297), (45, 71318), (47, 71339), (49, 71354), (50, 71363), (51, 71402), (54, 71432), (57, 71570), (58, 71573), (73, 71741), (82, 71840), (84, 71867), (86, 71891), (92, 71939), (93, 71945), (96, 71990), (98, 71999), (99, 72020), (100, 72026), (102, 72044), (105, 72083), (111, 72125), (128, 72293), (131, 72335), (132, 72341), (136, 72362), (137, 72386), (149, 72473), (153, 72515), (156, 72530), (157, 72533), (159, 72536), (162, 72614), (166, 72704), (174, 72806), (179, 72893), (181, 72911), (184, 72935),

Gene: Willis\_133 Start: 72193, Stop: 74451, Start Num: 6

Candidate Starts for Willis\_133:

(Start: 4 @72184 has 52 MA's), (Start: 6 @72193 has 136 MA's), (7, 72232), (9, 72301), (10, 72310), (14, 72406), (16, 72427), (17, 72436), (18, 72457), (21, 72493), (27, 72577), (31, 72586), (43, 72661), (44, 72664), (45, 72685), (47, 72706), (49, 72721), (50, 72730), (51, 72769), (54, 72799), (57, 72937), (58, 72940), (73, 73108), (82, 73207), (84, 73234), (86, 73258), (92, 73306), (93, 73312), (96, 73357), (98, 73366), (99, 73387), (100, 73393), (102, 73411), (105, 73450), (111, 73492), (128, 73660), (131, 73702), (132, 73708), (136, 73729), (137, 73753), (149, 73840), (153, 73882), (156, 73897), (157, 73900), (159, 73903), (162, 73981), (166, 74071), (174, 74173), (179, 74260), (181, 74278), (184, 74302),

Gene: Yassified\_129 Start: 70903, Stop: 73161, Start Num: 6

Candidate Starts for Yassified\_129:

(Start: 4 @70894 has 52 MA's), (Start: 6 @70903 has 136 MA's), (7, 70942), (9, 71011), (10, 71020), (14, 71116), (16, 71137), (17, 71146), (18, 71167), (21, 71203), (27, 71287), (31, 71296), (43, 71371), (44, 71374), (45, 71395), (47, 71416), (49, 71431), (50, 71440), (51, 71479), (54, 71509), (57, 71647), (58, 71650), (73, 71818), (79, 71869), (82, 71917), (84, 71944), (86, 71968), (92, 72016), (93, 72022), (96, 72067), (98, 72076), (99, 72097), (100, 72103), (102, 72121), (105, 72160), (111, 72202), (130, 72394), (131, 72412), (132, 72418), (136, 72439), (137, 72463), (149, 72550), (153, 72592), (156, 72607), (157, 72610), (159, 72613), (162, 72691), (166, 72781), (174, 72883), (179, 72970), (181, 72988), (184, 73012),

Gene: YemiJoy2021\_133 Start: 72285, Stop: 74543, Start Num: 6

Candidate Starts for YemiJoy2021\_133:

(Start: 4 @72276 has 52 MA's), (Start: 6 @72285 has 136 MA's), (7, 72324), (9, 72393), (10, 72402), (14, 72498), (16, 72519), (17, 72528), (18, 72549), (21, 72585), (27, 72669), (31, 72678), (43, 72753), (44, 72756), (45, 72777), (47, 72798), (49, 72813), (50, 72822), (51, 72861), (54, 72891), (57, 73029), (58, 73032), (73, 73200), (82, 73299), (84, 73326), (86, 73350), (92, 73398), (93, 73404), (96, 73449), (98, 73458), (99, 73479), (100, 73485), (102, 73503), (105, 73542), (111, 73584), (128, 73752), (131, 73794), (132, 73800), (136, 73821), (137, 73845), (149, 73932), (153, 73974), (156, 73989), (157, 73992), (159, 73995), (162, 74073), (166, 74163), (174, 74265), (179, 74352), (181, 74370), (184, 74394),

Gene: YoungMoneyMata\_134 Start: 71931, Stop: 74189, Start Num: 6

Candidate Starts for YoungMoneyMata\_134:

(Start: 4 @71922 has 52 MA's), (Start: 6 @71931 has 136 MA's), (7, 71970), (9, 72039), (10, 72048), (14, 72144), (16, 72165), (17, 72174), (18, 72195), (21, 72231), (27, 72315), (31, 72324), (43, 72399), (44, 72402), (45, 72423), (47, 72444), (49, 72459), (50, 72468), (51, 72507), (54, 72537), (57, 72675), (58, 72678), (73, 72846), (82, 72945), (84, 72972), (86, 72996), (92, 73044), (93, 73050), (96, 73095), (98, 73104), (99, 73125), (100, 73131), (102, 73149), (105, 73188), (111, 73230), (128, 73398), (131, 73440), (132, 73446), (136, 73467), (137, 73491), (149, 73578), (153, 73620), (156, 73635), (157, 73638), (159, 73641), (162, 73719), (166, 73809), (174, 73911), (179, 73998), (181, 74016), (184, 74040),

Gene: Yucca\_131 Start: 71967, Stop: 74225, Start Num: 6

Candidate Starts for Yucca\_131:

(Start: 4 @71958 has 52 MA's), (Start: 6 @71967 has 136 MA's), (7, 72006), (9, 72075), (10, 72084), (14, 72180), (16, 72201), (17, 72210), (18, 72231), (21, 72267), (27, 72351), (31, 72360), (43, 72435), (44, 72438), (45, 72459), (47, 72480), (49, 72495), (50, 72504), (51, 72543), (54, 72573), (57, 72711), (58, 72714), (73, 72882), (82, 72981), (84, 73008), (86, 73032), (92, 73080), (93, 73086), (96, 73131), (98, 73140), (99, 73161), (100, 73167), (102, 73185), (105, 73224), (111, 73266), (128, 73434), (131, 73476), (132, 73482), (136, 73503), (137, 73527), (149, 73614), (153, 73656), (156, 73671), (157, 73674), (159, 73677), (162, 73755), (166, 73845), (174, 73947), (179, 74034), (181, 74052), (184, 74076),

Gene: Zalkecks\_133 Start: 71968, Stop: 74226, Start Num: 6

Candidate Starts for Zalkecks\_133:

(Start: 4 @71959 has 52 MA's), (Start: 6 @71968 has 136 MA's), (7, 72007), (9, 72076), (10, 72085), (14, 72181), (16, 72202), (17, 72211), (18, 72232), (21, 72268), (27, 72352), (31, 72361), (43, 72436), (44, 72439), (45, 72460), (47, 72481), (49, 72496), (50, 72505), (51, 72544), (54, 72574), (57, 72712), (58, 72715), (73, 72883), (82, 72982), (84, 73009), (86, 73033), (92, 73081), (93, 73087), (96, 73132), (98, 73141), (99, 73162), (100, 73168), (102, 73186), (105, 73225), (111, 73267), (128, 73435), (131, 73477), (132, 73483), (136, 73504), (137, 73528), (149, 73615), (153, 73657), (156, 73672), (157, 73675), (159, 73678), (162, 73756), (166, 73846), (174, 73948), (179, 74035), (181, 74053), (184, 74077),

Gene: Zeenon\_133 Start: 72053, Stop: 74311, Start Num: 6

Candidate Starts for Zeenon\_133:

(Start: 4 @72044 has 52 MA's), (Start: 6 @72053 has 136 MA's), (7, 72092), (9, 72161), (10, 72170), (14, 72266), (16, 72287), (17, 72296), (18, 72317), (21, 72353), (27, 72437), (31, 72446), (43, 72521), (44, 72524), (45, 72545), (47, 72566), (49, 72581), (50, 72590), (51, 72629), (54, 72659), (57, 72797), (58, 72800), (73, 72968), (82, 73067), (84, 73094), (86, 73118), (92, 73166), (93, 73172), (96, 73217), (98, 73226), (99, 73247), (100, 73253), (102, 73271), (105, 73310), (111, 73352), (128, 73520), (131, 73562), (132, 73568), (136, 73589), (137, 73613), (149, 73700), (153, 73742), (156, 73757), (157, 73760), (159, 73763), (162, 73841), (166, 73931), (174, 74033), (179, 74120), (181, 74138), (184, 74162),

Gene: ZygoTaiga\_130 Start: 73213, Stop: 75471, Start Num: 6

Candidate Starts for ZygoTaiga\_130:

(Start: 4 @73204 has 52 MA's), (Start: 6 @73213 has 136 MA's), (7, 73252), (9, 73321), (10, 73330), (14, 73426), (16, 73447), (17, 73456), (18, 73477), (21, 73513), (27, 73597), (31, 73606), (43, 73681), (44, 73684), (45, 73705), (47, 73726), (49, 73741), (50, 73750), (51, 73789), (54, 73819), (57, 73957), (58, 73960), (73, 74128), (82, 74227), (84, 74254), (86, 74278), (92, 74326), (93, 74332), (96, 74377), (98, 74386), (99, 74407), (100, 74413), (102, 74431), (105, 74470), (111, 74512), (128, 74680), (131, 74722), (132, 74728), (136, 74749), (137, 74773), (149, 74860), (153, 74902), (156, 74917), (157, 74920), (159, 74923), (162, 75001), (166, 75091), (174, 75193), (179, 75280), (181, 75298), (184, 75322),