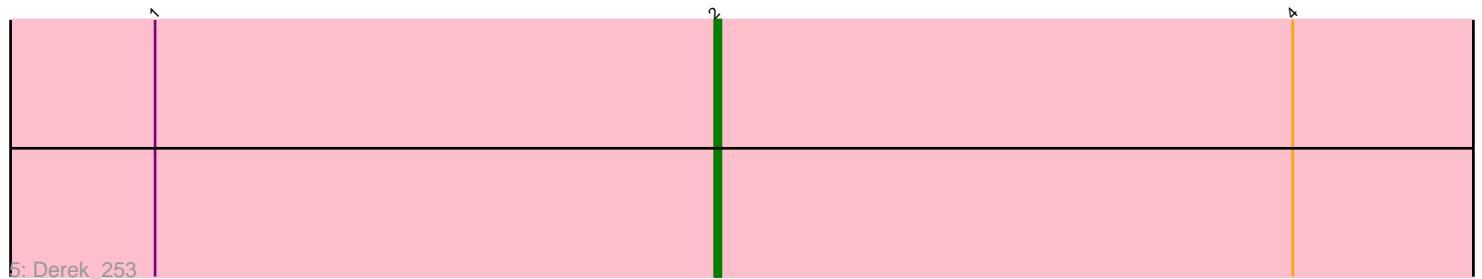
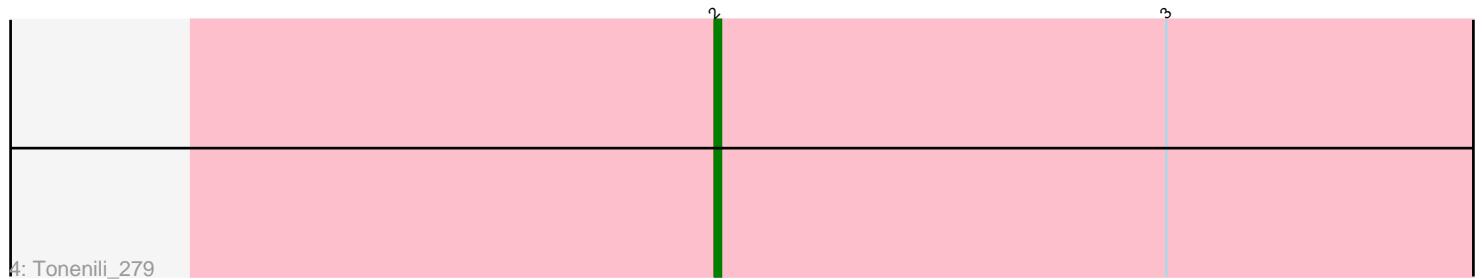
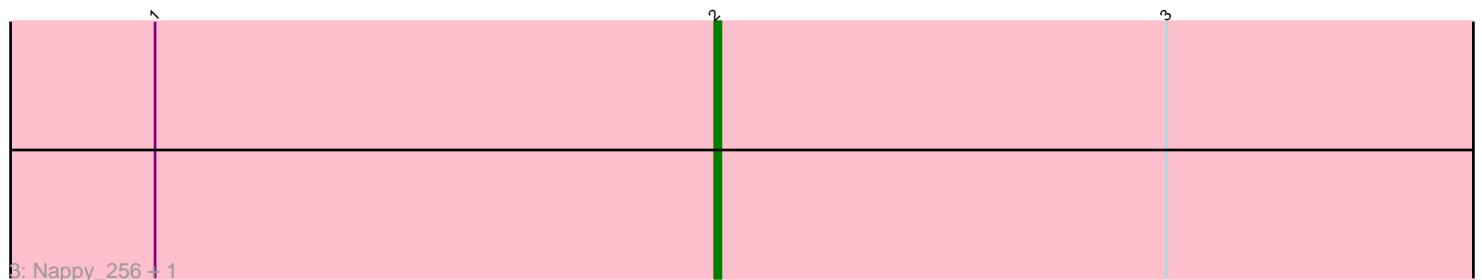
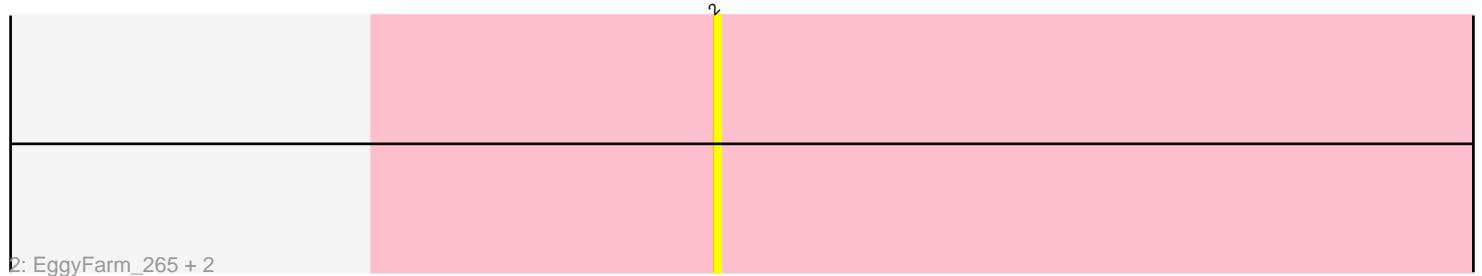
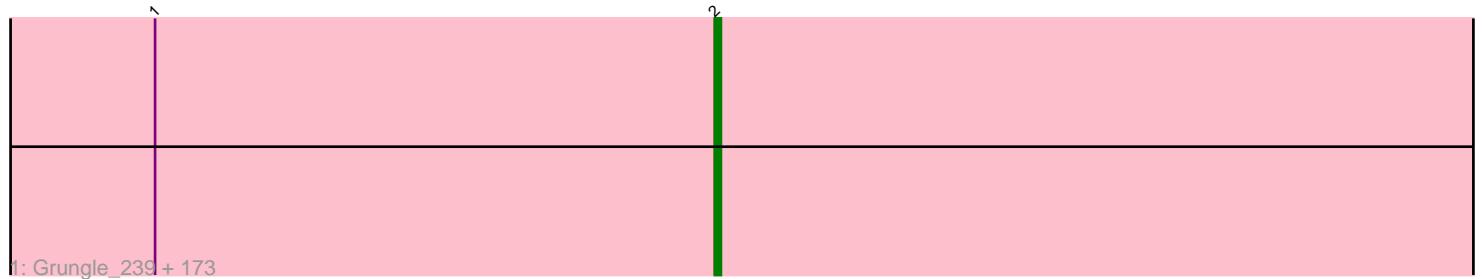


Pham 84941



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 84941 Report

This analysis was run 04/05/24 on database version 557.

Pham number 84941 has 181 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Grungle\_239, Jemmno\_257, Lukilu\_246, Blackbrain\_256, Ava3\_254, Darko\_257, Atlantean\_257, FrayBell\_260, LinStu\_254, SrishMeg2525\_255, Drazdys\_254, Morizzled23\_255, Essence\_255, StubbySaigey\_264, Spud\_249, JustHall\_251, Jaygup\_254, FoxtrotP1\_256, Sebata\_257, MikeLiesIn\_258, EmToTheThree\_258, DrPhinkDaddy\_254, Alice\_243, IkeLoa\_251, Dietrick\_246, Gamgam\_259, EmmaElysia\_262, Tyke\_254, Zalkecks\_256, BananaFence\_255, Daffodil\_263, Kamryn\_256, Izajani\_253, Pivoine\_258, Colt\_248, Adlitam\_257, PurduePete\_258, JulietS\_249, Mikro\_251, ParkTD\_256, Ewok\_256, DTDevon\_258, Bangla1971\_258, Delylah\_259, Bipolarisk\_255, Melpomini\_252, CindyLou\_258, EasyJones\_258, Roots515\_260, ScottMcG\_249, Guwapp\_253, Wally\_255, McWolfish\_254, Nidhogg\_258, ArcherS7\_258, LRRHood\_249, Audrick\_260, Ading\_260, Ghost\_257, QBert\_249, Kboogie\_261, Jedediah\_259, Jessibeth14\_257, Trinitium\_254, Willis\_258, Pio\_264, NuevoMundo\_259, ValleyTerrace\_258, Latch\_257, Catera\_246, CharlieB\_252, Rabinovich\_250, Cali\_247, Yassified\_253, Burrough\_258, Matsumoto\_255, Breenieme\_257, MoMoMixon\_253, Spec\_251, ET08\_243, DirtMonster\_246, SmallFry\_258, NedWong\_256, Loanshark\_254, Delilah\_255, Naija\_258, YemiJoy2021\_258, Fludd\_257, Patter\_259, Bigswole\_262, Capablanca\_262, Janiyra\_261, ShiaLabeouf\_255, Amataga\_258, Bonray\_260, Cane17\_247, Maby2021\_258, Specks\_262, Phlegm\_262, Ronan\_253, LordLeafolot\_259, Shaqnato\_248, Sprinklers\_255, Concombre\_263, Blubba\_253, Turret\_248, ChaylaJr\_256, Ngannou\_252, Khaleesi\_256, Naval22\_262, Erdmann\_259, Chargie21\_255, Shnickers\_256, Flabslab\_252, Basquiat\_255, Chomp\_255, Koguma\_256, BackyardAgain\_252, Babyland\_260, Sauce\_254, Shelob\_258, I3\_267, Teardrop\_256, ErnieJ\_251, Megamind\_254, Gizmo\_263, Caravan\_247, Gabriel\_260, Bread\_254, Napoleon13\_254, Pier\_256, Rahel\_259, InigoMontoya\_261, Phusco\_256, NoodleTree\_253, Norm\_257, JayJay\_253, Lee7\_258, LifeSavor\_258, Shrimp\_260, LolaVinca\_253, InterFolia\_259, Quasimodo\_260, YoungMoneyMata\_257, SilverDipper\_262, Tortoise16\_255, HyRo\_242, Phox\_258, Stubby\_240, Issimir\_254, Littleton\_261, Shifa\_233, TinyTim\_256, Salacia\_259, Cactojaque\_252, JPickles\_255, Pinkcreek\_237, Mangeria\_257, ZygoTaiga\_254, Bxz1\_243, Momo\_259, BadAgartude\_251, Zeenon\_258, Iota\_254, Yucca\_258, ChickenPhender\_253, BeanWater\_250, FudgeTart\_253, RoMag\_252, McGee\_259, StephanieG\_251, Astraea\_253, Pleione\_261, Asterius\_254
- Track 2 : EggyFarm\_265, Grasshills\_264, BigCity\_265
- Track 3 : Nappy\_256, Dandelion\_263
- Track 4 : Tonenili\_279

- Track 5 : Derek\_253

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

The start number called the most often in the published annotations is 2, it was called in 166 of the 166 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Ading\_260, Adlitam\_257, Alice\_243, Amataga\_258, ArcherS7\_258, Asterius\_254, Astraea\_253, Atlantean\_257, Audrick\_260, Ava3\_254, Babyland\_260, BackyardAgain\_252, BadAgartude\_251, BananaFence\_255, Bangla1971\_258, Basquiat\_255, BeanWater\_250, BigCity\_265, Bigswole\_262, Bipolarisk\_255, Blackbrain\_256, Blubba\_253, Bonray\_260, Bread\_254, Breenieme\_257, Burrough\_258, Bxz1\_243, Cactojaque\_252, Cali\_247, Cane17\_247, Capablanca\_262, Caravan\_247, Catera\_246, Charge21\_255, CharlieB\_252, ChaylaJr\_256, ChickenPhender\_253, Chomp\_255, CindyLou\_258, Colt\_248, Concombe\_263, DTDevon\_258, Daffodil\_263, Dandelion\_263, Darko\_257, Delilah\_255, Delylah\_259, Derek\_253, Dietrick\_246, DirtMonster\_246, DrPhinkDaddy\_254, Drazdys\_254, ET08\_243, EasyJones\_258, EggyFarm\_265, EmToTheThree\_258, EmmaElysia\_262, Erdmann\_259, ErnieJ\_251, Essence\_255, Ewok\_256, Flabslab\_252, Fludd\_257, FoxtrotP1\_256, FrayBell\_260, FudgeTart\_253, Gabriel\_260, Gamgam\_259, Ghost\_257, Gizmo\_263, Grasshills\_264, Grungle\_239, Guwapp\_253, HyRo\_242, I3\_267, IkeLoa\_251, InigoMontoya\_261, InterFolia\_259, Iota\_254, Issimir\_254, Izajani\_253, JPickles\_255, Janiyra\_261, JayJay\_253, Jaygup\_254, Jedediah\_259, Jemmno\_257, Jessibeth14\_257, JulietS\_249, JustHall\_251, Kamryn\_256, Kboogie\_261, Khaleesi\_256, Koguma\_256, LRRHood\_249, Latch\_257, Lee7\_258, LifeSavor\_258, LinStu\_254, Littleton\_261, Loanshark\_254, LolaVinca\_253, LordLeafolot\_259, Lukilu\_246, Maby2021\_258, Mangeria\_257, Matsumoto\_255, McGee\_259, McWolfish\_254, Megamind\_254, Melpomini\_252, MikeLiesIn\_258, Mikro\_251, MoMoMixon\_253, Momo\_259, Morizzled23\_255, Naija\_258, Napoleon13\_254, Nappy\_256, Naval22\_262, NedWong\_256, Ngannou\_252, Nidhogg\_258, NoodleTree\_253, Norm\_257, NuevoMundo\_259, ParkTD\_256, Patter\_259, Phlegm\_262, Phox\_258, Phusco\_256, Pier\_256, Pinkcreek\_237, Pio\_264, Pivoine\_258, Pleione\_261, PurduePete\_258, QBert\_249, Quasimodo\_260, Rabinovich\_250, Rahel\_259, RoMag\_252, Ronan\_253, Roots515\_260, Salacia\_259, Sauce\_254, ScottMcG\_249, Sebata\_257, Shaqnato\_248, Shelob\_258, ShiaLabeouf\_255, Shifa\_233, Shnickers\_256, Shrimp\_260, SilverDipper\_262, SmallFry\_258, Spec\_251, Specks\_262, Sprinklers\_255, Spud\_249, SrishMeg2525\_255, StephanieG\_251, StubbySaigey\_264, Stubby\_240, Teardrop\_256, TinyTim\_256, Tonenili\_279, Tortoise16\_255, Trinitium\_254, Turret\_248, Tyke\_254, ValleyTerrace\_258, Wally\_255, Willis\_258, Yassified\_253, YemiJoy2021\_258, YoungMoneyMata\_257, Yucca\_258, Zalkecks\_256, Zeenon\_258, ZygoTaiga\_254,

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

- 

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

-

## **Summary by start number:**

Start 2:

- Found in 181 of 181 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 166 of 166
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ading\_260 (C1), Adlitam\_257 (C1), Alice\_243 (C1), Amataga\_258 (C1), ArcherS7\_258 (C1), Asterius\_254 (C1), Astraea\_253 (C1), Atlantean\_257 (C1), Audrick\_260 (C1), Ava3\_254 (C1), Babyland\_260 (C1), BackyardAgain\_252 (C1), BadAgartude\_251 (C1), BananaFence\_255 (C1), Bangla1971\_258 (C1), Basquiat\_255 (C1), BeanWater\_250 (C1), BigCity\_265 (C1), Bigswole\_262 (C1), Bipolarisk\_255 (C1), Blackbrain\_256 (C1), Blubba\_253 (C1), Bonray\_260 (C1), Bread\_254 (C1), Breeniome\_257 (C1), Burrough\_258 (C1), Bxz1\_243 (C1), Cactojaque\_252 (C1), Cali\_247 (C1), Cane17\_247 (C1), Capablanca\_262 (C1), Caravan\_247 (C1), Catera\_246 (C1), Charge21\_255 (C1), CharlieB\_252 (C1), ChaylaJr\_256 (C1), ChickenPhender\_253 (C1), Chomp\_255 (C1), CindyLou\_258 (C1), Colt\_248 (C1), Concombre\_263 (C1), DTDevon\_258 (C1), Daffodil\_263 (C1), Dandelion\_263 (C1), Darko\_257 (C1), Delilah\_255 (C1), Delylah\_259 (C1), Derek\_253 (C1), Dietrick\_246 (C1), DirtMonster\_246 (C1), DrPhinkDaddy\_254 (C1), Drazdys\_254 (C1), ET08\_243 (C1), EasyJones\_258 (C1), EggyFarm\_265 (C1), EmToTheThree\_258 (C1), EmmaElysia\_262 (C1), Erdmann\_259 (C1), ErnieJ\_251 (C1), Essence\_255 (C1), Ewok\_256 (C1), Flabslab\_252 (C1), Fludd\_257 (C1), FoxtrotP1\_256 (C1), FrayBell\_260 (C1), FudgeTart\_253 (C1), Gabriel\_260 (C1), Gamgam\_259 (C1), Ghost\_257 (C1), Gizmo\_263 (C1), Grasshills\_264 (C1), Grungle\_239 (C1), Guwapp\_253 (C1), HyRo\_242 (C1), I3\_267 (C1), IkeLoa\_251 (C1), InigoMontoya\_261 (C1), InterFolia\_259 (C1), Iota\_254 (C1), Issimir\_254 (C1), Izajani\_253 (C1), JPickles\_255 (C1), Janiyra\_261 (C1), JayJay\_253 (C1), Jaygup\_254 (C1), Jedediah\_259 (C1), Jemmno\_257 (C1), Jessibeth14\_257 (C1), JulietS\_249 (C1), JustHall\_251 (C1), Kamryn\_256 (C1), Kboogie\_261 (C1), Khaleesi\_256 (C1), Koguma\_256 (C1), LRRHood\_249 (C1), Latch\_257 (C1), Lee7\_258 (C1), LifeSavor\_258 (C1), LinStu\_254 (C1), Littleton\_261 (C1), Loanshark\_254 (C1), LolaVinca\_253 (C1), LordLeafolot\_259 (C1), Lukilu\_246 (C1), Maby2021\_258 (C1), Mangeria\_257 (C1), Matsumoto\_255 (C1), McGee\_259 (C1), McWolfish\_254 (C1), Megamind\_254 (C1), Melpomini\_252 (C1), MikeLiesIn\_258 (C1), Mikro\_251 (C1), MoMoMixon\_253 (C1), Momo\_259 (C1), Morizzled23\_255 (C1), Naija\_258 (C1), Napoleon13\_254 (C1), Nappy\_256 (C1), Naval22\_262 (C1), NedWong\_256 (C1), Ngannou\_252 (C1), Nidhogg\_258 (C1), NoodleTree\_253 (C1), Norm\_257 (C1), NuevoMundo\_259 (C1), ParkTD\_256 (C1), Patter\_259 (C1), Phlegm\_262 (C1), Phox\_258 (C1), Phusco\_256 (C1), Pier\_256 (C1), Pinkcreek\_237 (C1), Pio\_264 (C1), Pivoine\_258 (C1), Pleione\_261 (C1), PurduePete\_258 (C1), QBert\_249 (C1), Quasimodo\_260 (C1), Rabinovich\_250 (C1), Rahel\_259 (C1), RoMag\_252 (C1), Ronan\_253 (C1), Roots515\_260 (C1), Salacia\_259 (C1), Sauce\_254 (C1), ScottMcG\_249 (C1), Sebata\_257 (C1), Shaqnato\_248 (C1), Shelob\_258 (C1), ShiaLabeouf\_255 (C1), Shifa\_233 (C1), Shnickers\_256 (C1), Shrimp\_260 (C1), SilverDipper\_262 (C1), SmallFry\_258 (C1), Spec\_251 (C1), Specks\_262 (C1), Sprinklers\_255 (C1), Spud\_249 (C1), SrishMeg2525\_255 (C1), StephanieG\_251 (C1), StubbySaigey\_264 (C1), Stubby\_240 (C1), Teardrop\_256 (C1), TinyTim\_256 (C1), Tonenili\_279 (C1), Tortoise16\_255 (C1), Trinitium\_254 (C1), Turret\_248 (C1), Tyke\_254 (C1), ValleyTerrace\_258 (C1), Wally\_255 (C1), Willis\_258 (C1), Yassified\_253 (C1), YemiJoy2021\_258 (C1), YoungMoneyMata\_257 (C1), Yucca\_258 (C1), Zalkecks\_256 (C1), Zeenon\_258 (C1), ZygoTaiga\_254 (C1),

## **Summary by clusters:**

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 2 was manually annotated 166 times for cluster C1.

### ***Gene Information:***

Gene: Ading\_260 Start: 151447, Stop: 151668, Start Num: 2

Candidate Starts for Ading\_260:

(1, 151354), (Start: 2 @151447 has 166 MA's),

Gene: Adlitam\_257 Start: 148795, Stop: 149016, Start Num: 2

Candidate Starts for Adlitam\_257:

(1, 148702), (Start: 2 @148795 has 166 MA's),

Gene: Alice\_243 Start: 146678, Stop: 146899, Start Num: 2

Candidate Starts for Alice\_243:

(1, 146585), (Start: 2 @146678 has 166 MA's),

Gene: Amataga\_258 Start: 148601, Stop: 148822, Start Num: 2

Candidate Starts for Amataga\_258:

(1, 148508), (Start: 2 @148601 has 166 MA's),

Gene: ArcherS7\_258 Start: 150346, Stop: 150567, Start Num: 2

Candidate Starts for ArcherS7\_258:

(1, 150253), (Start: 2 @150346 has 166 MA's),

Gene: Asterius\_254 Start: 148652, Stop: 148873, Start Num: 2

Candidate Starts for Asterius\_254:

(1, 148559), (Start: 2 @148652 has 166 MA's),

Gene: Astraea\_253 Start: 148654, Stop: 148875, Start Num: 2

Candidate Starts for Astraea\_253:

(1, 148561), (Start: 2 @148654 has 166 MA's),

Gene: Atlantean\_257 Start: 148601, Stop: 148822, Start Num: 2

Candidate Starts for Atlantean\_257:

(1, 148508), (Start: 2 @148601 has 166 MA's),

Gene: Audrick\_260 Start: 148491, Stop: 148712, Start Num: 2

Candidate Starts for Audrick\_260:

(1, 148398), (Start: 2 @148491 has 166 MA's),

Gene: Ava3\_254 Start: 148254, Stop: 148475, Start Num: 2

Candidate Starts for Ava3\_254:

(1, 148161), (Start: 2 @148254 has 166 MA's),

Gene: Babyland\_260 Start: 149378, Stop: 149599, Start Num: 2

Candidate Starts for Babyland\_260:

(1, 149285), (Start: 2 @149378 has 166 MA's),

Gene: BackyardAgain\_252 Start: 146751, Stop: 146972, Start Num: 2

Candidate Starts for BackyardAgain\_252:

(1, 146658), (Start: 2 @146751 has 166 MA's),

Gene: BadAgartude\_251 Start: 148663, Stop: 148884, Start Num: 2

Candidate Starts for BadAgartude\_251:

(1, 148570), (Start: 2 @148663 has 166 MA's),

Gene: BananaFence\_255 Start: 149283, Stop: 149504, Start Num: 2

Candidate Starts for BananaFence\_255:

(1, 149190), (Start: 2 @149283 has 166 MA's),

Gene: Bangla1971\_258 Start: 148503, Stop: 148724, Start Num: 2

Candidate Starts for Bangla1971\_258:

(1, 148410), (Start: 2 @148503 has 166 MA's),

Gene: Basquiat\_255 Start: 147569, Stop: 147790, Start Num: 2

Candidate Starts for Basquiat\_255:

(1, 147476), (Start: 2 @147569 has 166 MA's),

Gene: BeanWater\_250 Start: 147639, Stop: 147860, Start Num: 2

Candidate Starts for BeanWater\_250:

(1, 147546), (Start: 2 @147639 has 166 MA's),

Gene: BigCity\_265 Start: 150394, Stop: 150615, Start Num: 2

Candidate Starts for BigCity\_265:

(Start: 2 @150394 has 166 MA's),

Gene: Bigswole\_262 Start: 150305, Stop: 150526, Start Num: 2

Candidate Starts for Bigswole\_262:

(1, 150212), (Start: 2 @150305 has 166 MA's),

Gene: Bipolarisk\_255 Start: 148522, Stop: 148743, Start Num: 2

Candidate Starts for Bipolarisk\_255:

(1, 148429), (Start: 2 @148522 has 166 MA's),

Gene: Blackbrain\_256 Start: 149346, Stop: 149567, Start Num: 2

Candidate Starts for Blackbrain\_256:

(1, 149253), (Start: 2 @149346 has 166 MA's),

Gene: Blubba\_253 Start: 152608, Stop: 152829, Start Num: 2

Candidate Starts for Blubba\_253:

(1, 152515), (Start: 2 @152608 has 166 MA's),

Gene: Bonray\_260 Start: 151146, Stop: 151367, Start Num: 2

Candidate Starts for Bonray\_260:

(1, 151053), (Start: 2 @151146 has 166 MA's),

Gene: Bread\_254 Start: 148306, Stop: 148527, Start Num: 2

Candidate Starts for Bread\_254:

(1, 148213), (Start: 2 @148306 has 166 MA's),

Gene: Breeniome\_257 Start: 148101, Stop: 148322, Start Num: 2

Candidate Starts for Breeniome\_257:

(1, 148008), (Start: 2 @148101 has 166 MA's),

Gene: Burrough\_258 Start: 149667, Stop: 149888, Start Num: 2

Candidate Starts for Burrough\_258:

(1, 149574), (Start: 2 @149667 has 166 MA's),

Gene: Bxz1\_243 Start: 149871, Stop: 150092, Start Num: 2

Candidate Starts for Bxz1\_243:

(1, 149778), (Start: 2 @149871 has 166 MA's),

Gene: Cactojaque\_252 Start: 148292, Stop: 148513, Start Num: 2

Candidate Starts for Cactojaque\_252:

(1, 148199), (Start: 2 @148292 has 166 MA's),

Gene: Cali\_247 Start: 149071, Stop: 149292, Start Num: 2

Candidate Starts for Cali\_247:

(1, 148978), (Start: 2 @149071 has 166 MA's),

Gene: Cane17\_247 Start: 153017, Stop: 153238, Start Num: 2

Candidate Starts for Cane17\_247:

(1, 152924), (Start: 2 @153017 has 166 MA's),

Gene: Capablanca\_262 Start: 151325, Stop: 151546, Start Num: 2

Candidate Starts for Capablanca\_262:

(1, 151232), (Start: 2 @151325 has 166 MA's),

Gene: Caravan\_247 Start: 148568, Stop: 148789, Start Num: 2

Candidate Starts for Caravan\_247:

(1, 148475), (Start: 2 @148568 has 166 MA's),

Gene: Catera\_246 Start: 147814, Stop: 148035, Start Num: 2

Candidate Starts for Catera\_246:

(1, 147721), (Start: 2 @147814 has 166 MA's),

Gene: Charge21\_255 Start: 147569, Stop: 147790, Start Num: 2

Candidate Starts for Charge21\_255:

(1, 147476), (Start: 2 @147569 has 166 MA's),

Gene: CharlieB\_252 Start: 148837, Stop: 149058, Start Num: 2

Candidate Starts for CharlieB\_252:

(1, 148744), (Start: 2 @148837 has 166 MA's),

Gene: ChaylaJr\_256 Start: 148511, Stop: 148732, Start Num: 2

Candidate Starts for ChaylaJr\_256:

(1, 148418), (Start: 2 @148511 has 166 MA's),

Gene: ChickenPhender\_253 Start: 147267, Stop: 147488, Start Num: 2

Candidate Starts for ChickenPhender\_253:

(1, 147174), (Start: 2 @147267 has 166 MA's),

Gene: Chomp\_255 Start: 150703, Stop: 150924, Start Num: 2

Candidate Starts for Chomp\_255:

(1, 150610), (Start: 2 @150703 has 166 MA's),

Gene: CindyLou\_258 Start: 150963, Stop: 151184, Start Num: 2

Candidate Starts for CindyLou\_258:

(1, 150870), (Start: 2 @150963 has 166 MA's),

Gene: Colt\_248 Start: 152209, Stop: 152430, Start Num: 2

Candidate Starts for Colt\_248:

(1, 152116), (Start: 2 @152209 has 166 MA's),

Gene: Concombre\_263 Start: 150501, Stop: 150722, Start Num: 2

Candidate Starts for Concombre\_263:

(1, 150408), (Start: 2 @150501 has 166 MA's),

Gene: DTDevon\_258 Start: 150535, Stop: 150756, Start Num: 2

Candidate Starts for DTDevon\_258:

(1, 150442), (Start: 2 @150535 has 166 MA's),

Gene: Daffodil\_263 Start: 148822, Stop: 149043, Start Num: 2

Candidate Starts for Daffodil\_263:

(1, 148729), (Start: 2 @148822 has 166 MA's),

Gene: Dandelion\_263 Start: 151356, Stop: 151577, Start Num: 2

Candidate Starts for Dandelion\_263:

(1, 151263), (Start: 2 @151356 has 166 MA's), (3, 151431),

Gene: Darko\_257 Start: 149287, Stop: 149508, Start Num: 2

Candidate Starts for Darko\_257:

(1, 149194), (Start: 2 @149287 has 166 MA's),

Gene: Delilah\_255 Start: 148915, Stop: 149136, Start Num: 2

Candidate Starts for Delilah\_255:

(1, 148822), (Start: 2 @148915 has 166 MA's),

Gene: Delylah\_259 Start: 149192, Stop: 149413, Start Num: 2

Candidate Starts for Delylah\_259:

(1, 149099), (Start: 2 @149192 has 166 MA's),

Gene: Derek\_253 Start: 149980, Stop: 150201, Start Num: 2

Candidate Starts for Derek\_253:

(1, 149887), (Start: 2 @149980 has 166 MA's), (4, 150076),

Gene: Dietrick\_246 Start: 147843, Stop: 148064, Start Num: 2

Candidate Starts for Dietrick\_246:

(1, 147750), (Start: 2 @147843 has 166 MA's),

Gene: DirtMonster\_246 Start: 148575, Stop: 148796, Start Num: 2

Candidate Starts for DirtMonster\_246:

(1, 148482), (Start: 2 @148575 has 166 MA's),

Gene: DrPhinkDaddy\_254 Start: 149600, Stop: 149821, Start Num: 2

Candidate Starts for DrPhinkDaddy\_254:  
(1, 149507), (Start: 2 @149600 has 166 MA's),

Gene: Drazdys\_254 Start: 149987, Stop: 150208, Start Num: 2  
Candidate Starts for Drazdys\_254:  
(1, 149894), (Start: 2 @149987 has 166 MA's),

Gene: ET08\_243 Start: 148311, Stop: 148532, Start Num: 2  
Candidate Starts for ET08\_243:  
(1, 148218), (Start: 2 @148311 has 166 MA's),

Gene: EasyJones\_258 Start: 148363, Stop: 148584, Start Num: 2  
Candidate Starts for EasyJones\_258:  
(1, 148270), (Start: 2 @148363 has 166 MA's),

Gene: EggyFarm\_265 Start: 150395, Stop: 150616, Start Num: 2  
Candidate Starts for EggyFarm\_265:  
(Start: 2 @150395 has 166 MA's),

Gene: EmToTheThree\_258 Start: 149388, Stop: 149609, Start Num: 2  
Candidate Starts for EmToTheThree\_258:  
(1, 149295), (Start: 2 @149388 has 166 MA's),

Gene: EmmaElysia\_262 Start: 150858, Stop: 151079, Start Num: 2  
Candidate Starts for EmmaElysia\_262:  
(1, 150765), (Start: 2 @150858 has 166 MA's),

Gene: Erdmann\_259 Start: 149356, Stop: 149577, Start Num: 2  
Candidate Starts for Erdmann\_259:  
(1, 149263), (Start: 2 @149356 has 166 MA's),

Gene: ErnieJ\_251 Start: 146991, Stop: 147212, Start Num: 2  
Candidate Starts for ErnieJ\_251:  
(1, 146898), (Start: 2 @146991 has 166 MA's),

Gene: Essence\_255 Start: 149199, Stop: 149420, Start Num: 2  
Candidate Starts for Essence\_255:  
(1, 149106), (Start: 2 @149199 has 166 MA's),

Gene: Ewok\_256 Start: 148850, Stop: 149071, Start Num: 2  
Candidate Starts for Ewok\_256:  
(1, 148757), (Start: 2 @148850 has 166 MA's),

Gene: Flabslab\_252 Start: 146256, Stop: 146477, Start Num: 2  
Candidate Starts for Flabslab\_252:  
(1, 146163), (Start: 2 @146256 has 166 MA's),

Gene: Fludd\_257 Start: 148075, Stop: 148296, Start Num: 2  
Candidate Starts for Fludd\_257:  
(1, 147982), (Start: 2 @148075 has 166 MA's),

Gene: FoxtrotP1\_256 Start: 149942, Stop: 150163, Start Num: 2  
Candidate Starts for FoxtrotP1\_256:

(1, 149849), (Start: 2 @149942 has 166 MA's),

Gene: FrayBell\_260 Start: 148206, Stop: 148427, Start Num: 2

Candidate Starts for FrayBell\_260:

(1, 148113), (Start: 2 @148206 has 166 MA's),

Gene: FudgeTart\_253 Start: 148446, Stop: 148667, Start Num: 2

Candidate Starts for FudgeTart\_253:

(1, 148353), (Start: 2 @148446 has 166 MA's),

Gene: Gabriel\_260 Start: 148234, Stop: 148455, Start Num: 2

Candidate Starts for Gabriel\_260:

(1, 148141), (Start: 2 @148234 has 166 MA's),

Gene: Gamgam\_259 Start: 148591, Stop: 148812, Start Num: 2

Candidate Starts for Gamgam\_259:

(1, 148498), (Start: 2 @148591 has 166 MA's),

Gene: Ghost\_257 Start: 149215, Stop: 149436, Start Num: 2

Candidate Starts for Ghost\_257:

(1, 149122), (Start: 2 @149215 has 166 MA's),

Gene: Gizmo\_263 Start: 151273, Stop: 151494, Start Num: 2

Candidate Starts for Gizmo\_263:

(1, 151180), (Start: 2 @151273 has 166 MA's),

Gene: Grasshills\_264 Start: 150394, Stop: 150615, Start Num: 2

Candidate Starts for Grasshills\_264:

(Start: 2 @150394 has 166 MA's),

Gene: Grungle\_239 Start: 146480, Stop: 146701, Start Num: 2

Candidate Starts for Grungle\_239:

(1, 146387), (Start: 2 @146480 has 166 MA's),

Gene: Guwapp\_253 Start: 147242, Stop: 147463, Start Num: 2

Candidate Starts for Guwapp\_253:

(1, 147149), (Start: 2 @147242 has 166 MA's),

Gene: HyRo\_242 Start: 147759, Stop: 147980, Start Num: 2

Candidate Starts for HyRo\_242:

(1, 147666), (Start: 2 @147759 has 166 MA's),

Gene: I3\_267 Start: 149550, Stop: 149771, Start Num: 2

Candidate Starts for I3\_267:

(1, 149457), (Start: 2 @149550 has 166 MA's),

Gene: IkeLoa\_251 Start: 148947, Stop: 149168, Start Num: 2

Candidate Starts for IkeLoa\_251:

(1, 148854), (Start: 2 @148947 has 166 MA's),

Gene: InigoMontoya\_261 Start: 149265, Stop: 149486, Start Num: 2

Candidate Starts for InigoMontoya\_261:

(1, 149172), (Start: 2 @149265 has 166 MA's),

Gene: InterFolia\_259 Start: 150011, Stop: 150232, Start Num: 2  
Candidate Starts for InterFolia\_259:  
(1, 149918), (Start: 2 @150011 has 166 MA's),

Gene: Iota\_254 Start: 148977, Stop: 149198, Start Num: 2  
Candidate Starts for Iota\_254:  
(1, 148884), (Start: 2 @148977 has 166 MA's),

Gene: Issimir\_254 Start: 149352, Stop: 149573, Start Num: 2  
Candidate Starts for Issimir\_254:  
(1, 149259), (Start: 2 @149352 has 166 MA's),

Gene: Izajani\_253 Start: 149797, Stop: 150018, Start Num: 2  
Candidate Starts for Izajani\_253:  
(1, 149704), (Start: 2 @149797 has 166 MA's),

Gene: JPickles\_255 Start: 148402, Stop: 148623, Start Num: 2  
Candidate Starts for JPickles\_255:  
(1, 148309), (Start: 2 @148402 has 166 MA's),

Gene: Janiyra\_261 Start: 149939, Stop: 150160, Start Num: 2  
Candidate Starts for Janiyra\_261:  
(1, 149846), (Start: 2 @149939 has 166 MA's),

Gene: JayJay\_253 Start: 147931, Stop: 148152, Start Num: 2  
Candidate Starts for JayJay\_253:  
(1, 147838), (Start: 2 @147931 has 166 MA's),

Gene: Jaygup\_254 Start: 149124, Stop: 149345, Start Num: 2  
Candidate Starts for Jaygup\_254:  
(1, 149031), (Start: 2 @149124 has 166 MA's),

Gene: Jedediah\_259 Start: 150177, Stop: 150398, Start Num: 2  
Candidate Starts for Jedediah\_259:  
(1, 150084), (Start: 2 @150177 has 166 MA's),

Gene: Jemmno\_257 Start: 148896, Stop: 149117, Start Num: 2  
Candidate Starts for Jemmno\_257:  
(1, 148803), (Start: 2 @148896 has 166 MA's),

Gene: Jessibeth14\_257 Start: 149565, Stop: 149786, Start Num: 2  
Candidate Starts for Jessibeth14\_257:  
(1, 149472), (Start: 2 @149565 has 166 MA's),

Gene: JulietS\_249 Start: 146476, Stop: 146697, Start Num: 2  
Candidate Starts for JulietS\_249:  
(1, 146383), (Start: 2 @146476 has 166 MA's),

Gene: JustHall\_251 Start: 148426, Stop: 148647, Start Num: 2  
Candidate Starts for JustHall\_251:  
(1, 148333), (Start: 2 @148426 has 166 MA's),

Gene: Kamryn\_256 Start: 150016, Stop: 150270, Start Num: 2

Candidate Starts for Kamryn\_256:

(1, 149923), (Start: 2 @150016 has 166 MA's),

Gene: Kboogie\_261 Start: 149055, Stop: 149276, Start Num: 2

Candidate Starts for Kboogie\_261:

(1, 148962), (Start: 2 @149055 has 166 MA's),

Gene: Khaleesi\_256 Start: 149032, Stop: 149253, Start Num: 2

Candidate Starts for Khaleesi\_256:

(1, 148939), (Start: 2 @149032 has 166 MA's),

Gene: Koguma\_256 Start: 148638, Stop: 148859, Start Num: 2

Candidate Starts for Koguma\_256:

(1, 148545), (Start: 2 @148638 has 166 MA's),

Gene: LRRHood\_249 Start: 148048, Stop: 148269, Start Num: 2

Candidate Starts for LRRHood\_249:

(1, 147955), (Start: 2 @148048 has 166 MA's),

Gene: Latch\_257 Start: 148601, Stop: 148822, Start Num: 2

Candidate Starts for Latch\_257:

(1, 148508), (Start: 2 @148601 has 166 MA's),

Gene: Lee7\_258 Start: 151702, Stop: 151923, Start Num: 2

Candidate Starts for Lee7\_258:

(1, 151609), (Start: 2 @151702 has 166 MA's),

Gene: LifeSavor\_258 Start: 149829, Stop: 150050, Start Num: 2

Candidate Starts for LifeSavor\_258:

(1, 149736), (Start: 2 @149829 has 166 MA's),

Gene: LinStu\_254 Start: 147930, Stop: 148151, Start Num: 2

Candidate Starts for LinStu\_254:

(1, 147837), (Start: 2 @147930 has 166 MA's),

Gene: Littleton\_261 Start: 149838, Stop: 150059, Start Num: 2

Candidate Starts for Littleton\_261:

(1, 149745), (Start: 2 @149838 has 166 MA's),

Gene: Loanshark\_254 Start: 148381, Stop: 148602, Start Num: 2

Candidate Starts for Loanshark\_254:

(1, 148288), (Start: 2 @148381 has 166 MA's),

Gene: LolaVinca\_253 Start: 149441, Stop: 149662, Start Num: 2

Candidate Starts for LolaVinca\_253:

(1, 149348), (Start: 2 @149441 has 166 MA's),

Gene: LordLeafolot\_259 Start: 149054, Stop: 149275, Start Num: 2

Candidate Starts for LordLeafolot\_259:

(1, 148961), (Start: 2 @149054 has 166 MA's),

Gene: Lukilu\_246 Start: 150057, Stop: 150278, Start Num: 2

Candidate Starts for Lukilu\_246:  
(1, 149964), (Start: 2 @150057 has 166 MA's),

Gene: Maby2021\_258 Start: 149934, Stop: 150155, Start Num: 2  
Candidate Starts for Maby2021\_258:  
(1, 149841), (Start: 2 @149934 has 166 MA's),

Gene: Mangeria\_257 Start: 149952, Stop: 150173, Start Num: 2  
Candidate Starts for Mangeria\_257:  
(1, 149859), (Start: 2 @149952 has 166 MA's),

Gene: Matsumoto\_255 Start: 149043, Stop: 149264, Start Num: 2  
Candidate Starts for Matsumoto\_255:  
(1, 148950), (Start: 2 @149043 has 166 MA's),

Gene: McGee\_259 Start: 149389, Stop: 149610, Start Num: 2  
Candidate Starts for McGee\_259:  
(1, 149296), (Start: 2 @149389 has 166 MA's),

Gene: McWolfish\_254 Start: 148243, Stop: 148464, Start Num: 2  
Candidate Starts for McWolfish\_254:  
(1, 148150), (Start: 2 @148243 has 166 MA's),

Gene: Megamind\_254 Start: 148568, Stop: 148789, Start Num: 2  
Candidate Starts for Megamind\_254:  
(1, 148475), (Start: 2 @148568 has 166 MA's),

Gene: Melpomini\_252 Start: 148135, Stop: 148356, Start Num: 2  
Candidate Starts for Melpomini\_252:  
(1, 148042), (Start: 2 @148135 has 166 MA's),

Gene: MikeLiesIn\_258 Start: 149704, Stop: 149925, Start Num: 2  
Candidate Starts for MikeLiesIn\_258:  
(1, 149611), (Start: 2 @149704 has 166 MA's),

Gene: Mikro\_251 Start: 150954, Stop: 151175, Start Num: 2  
Candidate Starts for Mikro\_251:  
(1, 150861), (Start: 2 @150954 has 166 MA's),

Gene: MoMoMixon\_253 Start: 148663, Stop: 148884, Start Num: 2  
Candidate Starts for MoMoMixon\_253:  
(1, 148570), (Start: 2 @148663 has 166 MA's),

Gene: Momo\_259 Start: 148601, Stop: 148822, Start Num: 2  
Candidate Starts for Momo\_259:  
(1, 148508), (Start: 2 @148601 has 166 MA's),

Gene: Morizzled23\_255 Start: 148417, Stop: 148638, Start Num: 2  
Candidate Starts for Morizzled23\_255:  
(1, 148324), (Start: 2 @148417 has 166 MA's),

Gene: Naija\_258 Start: 149304, Stop: 149525, Start Num: 2  
Candidate Starts for Naija\_258:

(1, 149211), (Start: 2 @149304 has 166 MA's),

Gene: Napoleon13\_254 Start: 148333, Stop: 148554, Start Num: 2

Candidate Starts for Napoleon13\_254:

(1, 148240), (Start: 2 @148333 has 166 MA's),

Gene: Nappy\_256 Start: 149603, Stop: 149824, Start Num: 2

Candidate Starts for Nappy\_256:

(1, 149510), (Start: 2 @149603 has 166 MA's), (3, 149678),

Gene: Naval22\_262 Start: 151084, Stop: 151305, Start Num: 2

Candidate Starts for Naval22\_262:

(1, 150991), (Start: 2 @151084 has 166 MA's),

Gene: NedWong\_256 Start: 148955, Stop: 149176, Start Num: 2

Candidate Starts for NedWong\_256:

(1, 148862), (Start: 2 @148955 has 166 MA's),

Gene: Ngannou\_252 Start: 148286, Stop: 148507, Start Num: 2

Candidate Starts for Ngannou\_252:

(1, 148193), (Start: 2 @148286 has 166 MA's),

Gene: Nidhogg\_258 Start: 150130, Stop: 150351, Start Num: 2

Candidate Starts for Nidhogg\_258:

(1, 150037), (Start: 2 @150130 has 166 MA's),

Gene: NoodleTree\_253 Start: 144881, Stop: 145102, Start Num: 2

Candidate Starts for NoodleTree\_253:

(1, 144788), (Start: 2 @144881 has 166 MA's),

Gene: Norm\_257 Start: 149224, Stop: 149445, Start Num: 2

Candidate Starts for Norm\_257:

(1, 149131), (Start: 2 @149224 has 166 MA's),

Gene: NuevoMundo\_259 Start: 149710, Stop: 149931, Start Num: 2

Candidate Starts for NuevoMundo\_259:

(1, 149617), (Start: 2 @149710 has 166 MA's),

Gene: ParkTD\_256 Start: 148794, Stop: 149015, Start Num: 2

Candidate Starts for ParkTD\_256:

(1, 148701), (Start: 2 @148794 has 166 MA's),

Gene: Patter\_259 Start: 149261, Stop: 149482, Start Num: 2

Candidate Starts for Patter\_259:

(1, 149168), (Start: 2 @149261 has 166 MA's),

Gene: Phlegm\_262 Start: 150007, Stop: 150228, Start Num: 2

Candidate Starts for Phlegm\_262:

(1, 149914), (Start: 2 @150007 has 166 MA's),

Gene: Phox\_258 Start: 148449, Stop: 148670, Start Num: 2

Candidate Starts for Phox\_258:

(1, 148356), (Start: 2 @148449 has 166 MA's),

Gene: Phusco\_256 Start: 148839, Stop: 149060, Start Num: 2  
Candidate Starts for Phusco\_256:  
(1, 148746), (Start: 2 @148839 has 166 MA's),

Gene: Pier\_256 Start: 150132, Stop: 150353, Start Num: 2  
Candidate Starts for Pier\_256:  
(1, 150039), (Start: 2 @150132 has 166 MA's),

Gene: Pinkcreek\_237 Start: 146458, Stop: 146679, Start Num: 2  
Candidate Starts for Pinkcreek\_237:  
(1, 146365), (Start: 2 @146458 has 166 MA's),

Gene: Pio\_264 Start: 150528, Stop: 150749, Start Num: 2  
Candidate Starts for Pio\_264:  
(1, 150435), (Start: 2 @150528 has 166 MA's),

Gene: Pivoine\_258 Start: 149304, Stop: 149525, Start Num: 2  
Candidate Starts for Pivoine\_258:  
(1, 149211), (Start: 2 @149304 has 166 MA's),

Gene: Pleione\_261 Start: 149260, Stop: 149481, Start Num: 2  
Candidate Starts for Pleione\_261:  
(1, 149167), (Start: 2 @149260 has 166 MA's),

Gene: PurduePete\_258 Start: 149974, Stop: 150195, Start Num: 2  
Candidate Starts for PurduePete\_258:  
(1, 149881), (Start: 2 @149974 has 166 MA's),

Gene: QBert\_249 Start: 147654, Stop: 147875, Start Num: 2  
Candidate Starts for QBert\_249:  
(1, 147561), (Start: 2 @147654 has 166 MA's),

Gene: Quasimodo\_260 Start: 149640, Stop: 149861, Start Num: 2  
Candidate Starts for Quasimodo\_260:  
(1, 149547), (Start: 2 @149640 has 166 MA's),

Gene: Rabinovish\_250 Start: 148144, Stop: 148365, Start Num: 2  
Candidate Starts for Rabinovish\_250:  
(1, 148051), (Start: 2 @148144 has 166 MA's),

Gene: Rahel\_259 Start: 149742, Stop: 149963, Start Num: 2  
Candidate Starts for Rahel\_259:  
(1, 149649), (Start: 2 @149742 has 166 MA's),

Gene: RoMag\_252 Start: 149338, Stop: 149559, Start Num: 2  
Candidate Starts for RoMag\_252:  
(1, 149245), (Start: 2 @149338 has 166 MA's),

Gene: Ronan\_253 Start: 147719, Stop: 147940, Start Num: 2  
Candidate Starts for Ronan\_253:  
(1, 147626), (Start: 2 @147719 has 166 MA's),

Gene: Roots515\_260 Start: 150076, Stop: 150297, Start Num: 2

Candidate Starts for Roots515\_260:

(1, 149983), (Start: 2 @150076 has 166 MA's),

Gene: Salacia\_259 Start: 150400, Stop: 150621, Start Num: 2

Candidate Starts for Salacia\_259:

(1, 150307), (Start: 2 @150400 has 166 MA's),

Gene: Sauce\_254 Start: 149066, Stop: 149287, Start Num: 2

Candidate Starts for Sauce\_254:

(1, 148973), (Start: 2 @149066 has 166 MA's),

Gene: ScottMcG\_249 Start: 148267, Stop: 148488, Start Num: 2

Candidate Starts for ScottMcG\_249:

(1, 148174), (Start: 2 @148267 has 166 MA's),

Gene: Sebata\_257 Start: 149119, Stop: 149340, Start Num: 2

Candidate Starts for Sebata\_257:

(1, 149026), (Start: 2 @149119 has 166 MA's),

Gene: Shaqnato\_248 Start: 148475, Stop: 148696, Start Num: 2

Candidate Starts for Shaqnato\_248:

(1, 148382), (Start: 2 @148475 has 166 MA's),

Gene: Shelob\_258 Start: 150394, Stop: 150615, Start Num: 2

Candidate Starts for Shelob\_258:

(1, 150301), (Start: 2 @150394 has 166 MA's),

Gene: ShiaLabeouf\_255 Start: 148253, Stop: 148474, Start Num: 2

Candidate Starts for ShiaLabeouf\_255:

(1, 148160), (Start: 2 @148253 has 166 MA's),

Gene: Shifa\_233 Start: 147727, Stop: 147948, Start Num: 2

Candidate Starts for Shifa\_233:

(1, 147634), (Start: 2 @147727 has 166 MA's),

Gene: Shnickers\_256 Start: 148317, Stop: 148538, Start Num: 2

Candidate Starts for Shnickers\_256:

(1, 148224), (Start: 2 @148317 has 166 MA's),

Gene: Shrimp\_260 Start: 150011, Stop: 150232, Start Num: 2

Candidate Starts for Shrimp\_260:

(1, 149918), (Start: 2 @150011 has 166 MA's),

Gene: SilverDipper\_262 Start: 149860, Stop: 150081, Start Num: 2

Candidate Starts for SilverDipper\_262:

(1, 149767), (Start: 2 @149860 has 166 MA's),

Gene: SmallFry\_258 Start: 149218, Stop: 149439, Start Num: 2

Candidate Starts for SmallFry\_258:

(1, 149125), (Start: 2 @149218 has 166 MA's),

Gene: Spec\_251 Start: 149230, Stop: 149451, Start Num: 2

Candidate Starts for Spec\_251:  
(1, 149137), (Start: 2 @149230 has 166 MA's),

Gene: Specks\_262 Start: 150158, Stop: 150379, Start Num: 2  
Candidate Starts for Specks\_262:  
(1, 150065), (Start: 2 @150158 has 166 MA's),

Gene: Sprinklers\_255 Start: 148926, Stop: 149147, Start Num: 2  
Candidate Starts for Sprinklers\_255:  
(1, 148833), (Start: 2 @148926 has 166 MA's),

Gene: Spud\_249 Start: 148675, Stop: 148896, Start Num: 2  
Candidate Starts for Spud\_249:  
(1, 148582), (Start: 2 @148675 has 166 MA's),

Gene: SrishMeg2525\_255 Start: 149506, Stop: 149727, Start Num: 2  
Candidate Starts for SrishMeg2525\_255:  
(1, 149413), (Start: 2 @149506 has 166 MA's),

Gene: StephanieG\_251 Start: 149861, Stop: 150082, Start Num: 2  
Candidate Starts for StephanieG\_251:  
(1, 149768), (Start: 2 @149861 has 166 MA's),

Gene: Stubby\_240 Start: 146646, Stop: 146867, Start Num: 2  
Candidate Starts for Stubby\_240:  
(1, 146553), (Start: 2 @146646 has 166 MA's),

Gene: StubbySaigey\_264 Start: 149843, Stop: 150064, Start Num: 2  
Candidate Starts for StubbySaigey\_264:  
(1, 149750), (Start: 2 @149843 has 166 MA's),

Gene: Teardrop\_256 Start: 149170, Stop: 149391, Start Num: 2  
Candidate Starts for Teardrop\_256:  
(1, 149077), (Start: 2 @149170 has 166 MA's),

Gene: TinyTim\_256 Start: 148330, Stop: 148551, Start Num: 2  
Candidate Starts for TinyTim\_256:  
(1, 148237), (Start: 2 @148330 has 166 MA's),

Gene: Tonenili\_279 Start: 153667, Stop: 153870, Start Num: 2  
Candidate Starts for Tonenili\_279:  
(Start: 2 @153667 has 166 MA's), (3, 153742),

Gene: Tortoise16\_255 Start: 148343, Stop: 148564, Start Num: 2  
Candidate Starts for Tortoise16\_255:  
(1, 148250), (Start: 2 @148343 has 166 MA's),

Gene: Trinitium\_254 Start: 147891, Stop: 148112, Start Num: 2  
Candidate Starts for Trinitium\_254:  
(1, 147798), (Start: 2 @147891 has 166 MA's),

Gene: Turret\_248 Start: 147024, Stop: 147245, Start Num: 2  
Candidate Starts for Turret\_248:

(1, 146931), (Start: 2 @147024 has 166 MA's),

Gene: Tyke\_254 Start: 150466, Stop: 150687, Start Num: 2

Candidate Starts for Tyke\_254:

(1, 150373), (Start: 2 @150466 has 166 MA's),

Gene: ValleyTerrace\_258 Start: 148601, Stop: 148822, Start Num: 2

Candidate Starts for ValleyTerrace\_258:

(1, 148508), (Start: 2 @148601 has 166 MA's),

Gene: Wally\_255 Start: 148585, Stop: 148806, Start Num: 2

Candidate Starts for Wally\_255:

(1, 148492), (Start: 2 @148585 has 166 MA's),

Gene: Willis\_258 Start: 149524, Stop: 149745, Start Num: 2

Candidate Starts for Willis\_258:

(1, 149431), (Start: 2 @149524 has 166 MA's),

Gene: Yassified\_253 Start: 148720, Stop: 148941, Start Num: 2

Candidate Starts for Yassified\_253:

(1, 148627), (Start: 2 @148720 has 166 MA's),

Gene: YemiJoy2021\_258 Start: 149448, Stop: 149669, Start Num: 2

Candidate Starts for YemiJoy2021\_258:

(1, 149355), (Start: 2 @149448 has 166 MA's),

Gene: YoungMoneyMata\_257 Start: 149716, Stop: 149937, Start Num: 2

Candidate Starts for YoungMoneyMata\_257:

(1, 149623), (Start: 2 @149716 has 166 MA's),

Gene: Yucca\_258 Start: 149889, Stop: 150110, Start Num: 2

Candidate Starts for Yucca\_258:

(1, 149796), (Start: 2 @149889 has 166 MA's),

Gene: Zalkecks\_256 Start: 148546, Stop: 148767, Start Num: 2

Candidate Starts for Zalkecks\_256:

(1, 148453), (Start: 2 @148546 has 166 MA's),

Gene: Zeenon\_258 Start: 149080, Stop: 149301, Start Num: 2

Candidate Starts for Zeenon\_258:

(1, 148987), (Start: 2 @149080 has 166 MA's),

Gene: ZygoTaiga\_254 Start: 150993, Stop: 151214, Start Num: 2

Candidate Starts for ZygoTaiga\_254:

(1, 150900), (Start: 2 @150993 has 166 MA's),