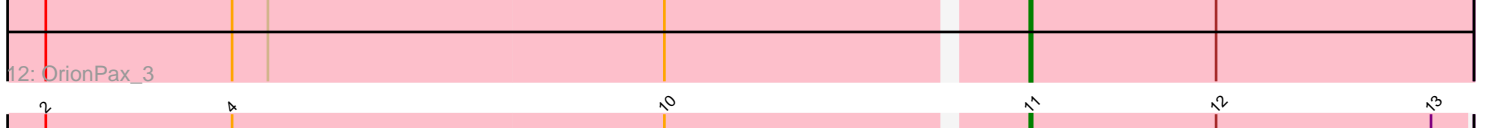
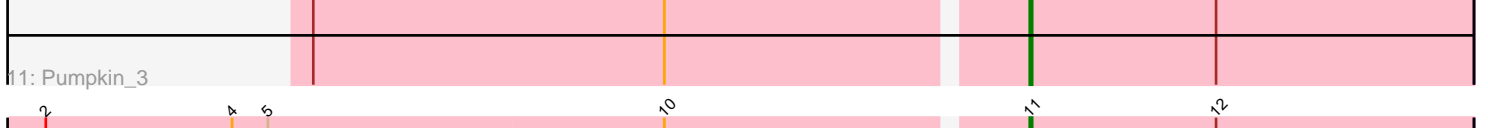
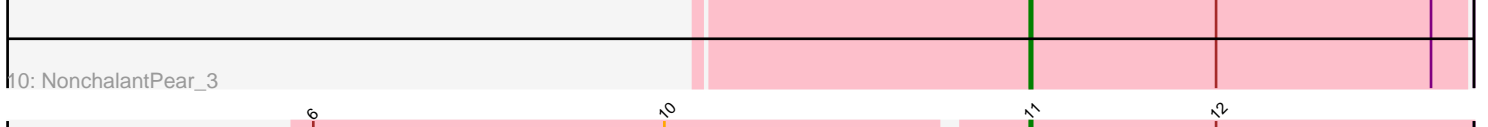
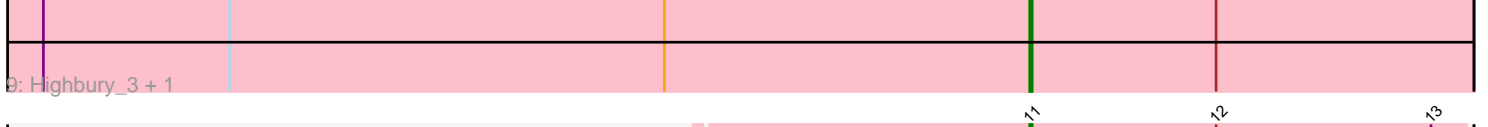
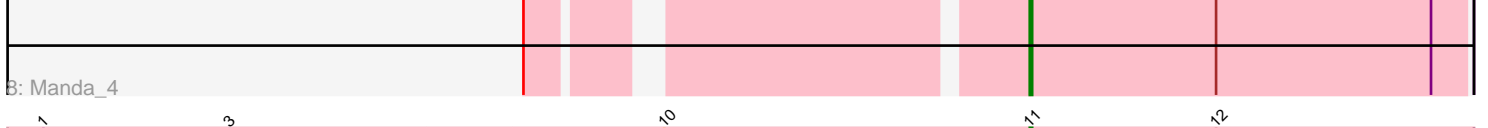
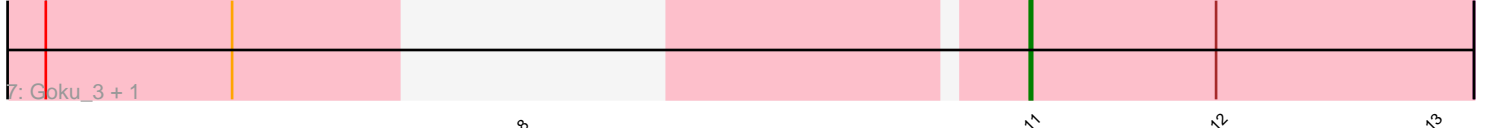
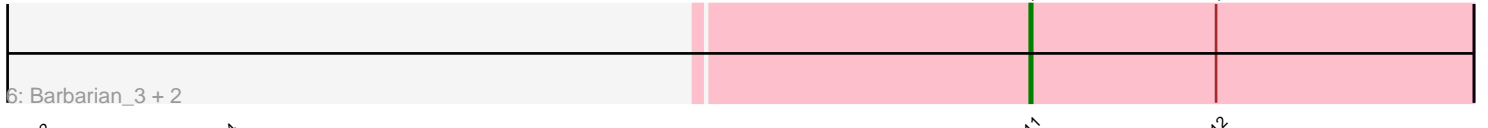
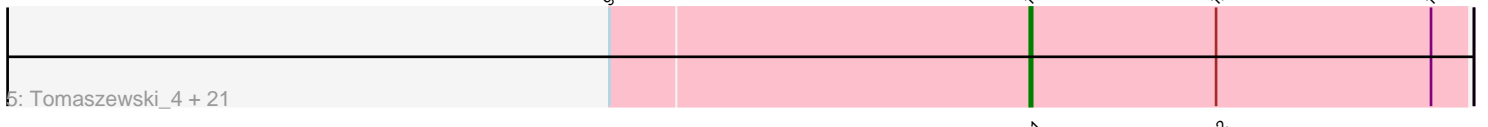
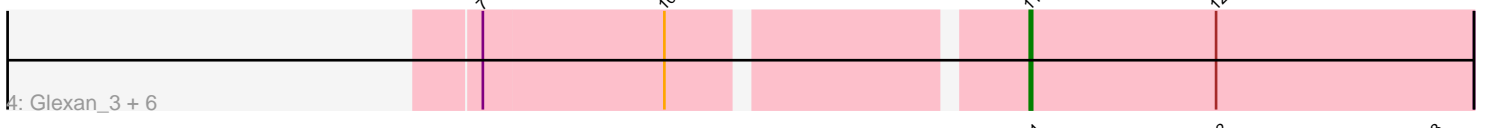
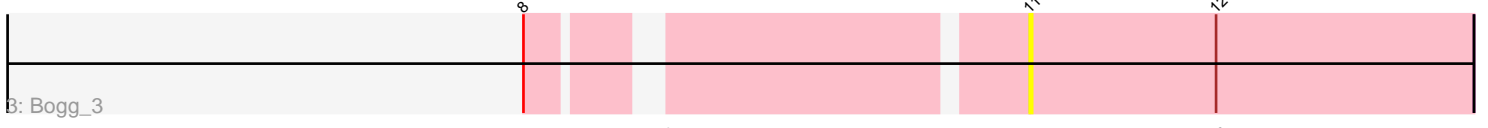
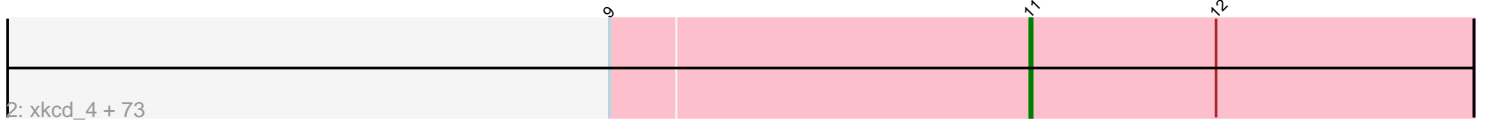
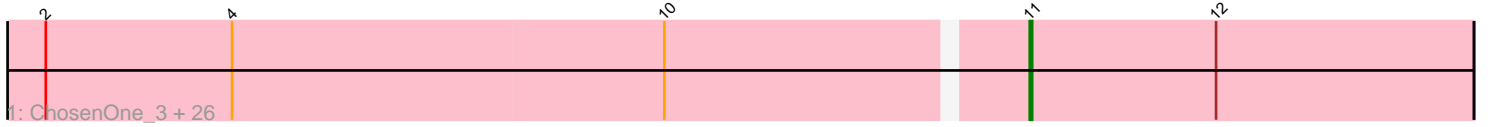


Pham 311341



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 311341 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311341 has 144 members, 13 are drafts.

Phages represented in each track:

- Track 1 : ChosenOne\_3, Thimble\_3, DoctorDiddles\_3, Moldemort\_3, Bench\_3, MadamMonkfish\_3, NoSleep\_3, Cjw1\_2, Elite2014\_3, 244\_3, Hopey\_3, Elph10\_3, Czyszczon1\_3, Thresher\_3, Easy2Say\_3, Simpliphy\_3, Maxxinista\_3, RiverMonster\_2, PaddyBaddy\_3, Phrux\_2, Holt\_3, HanKaySha\_3, Dumbo\_2, Filch\_3, Lilpickle\_3, Stark\_3, Ukulele\_2
- Track 2 : xkcd\_4, Brewer\_4, BaboJay\_4, Marshmallow\_4, Paperbeatsrock\_4, Rimmer\_4, Quallification\_4, Buck\_4, Cactus\_4, Pharsalus\_4, FairyPath\_4, Tuco\_4, Kanye\_4, IHOP\_4, Phaja\_4, Adnama\_4, Murphy\_3, Gage\_4, NelitzaMV\_4, BilboSwaggins\_4, Myrale\_4, Henry\_4, StolenFromERC\_4, Rakim\_4, Lilac\_4, StormChicken\_4, BigBubba\_4, BadStone\_3, TBrady12\_4, Miniwave\_4, ChotaBhai\_4, Icee\_4, TeamEdward\_4, ABCat\_3, CrystalP\_4, Tarkin\_4, Kostya\_4, StellaBean\_4, GoldenSpark\_4, GooberAzure\_4, Inca\_4, Nimrod\_4, Bask21\_4, Gemini\_4, Mindy\_4, ShamWow\_4, SophKB\_4, Kimchi\_4, Stank\_4, MollyToe\_4, Wiggins\_4, Toto\_4, Petra64142\_4, Porky\_3, Argent26\_4, Goldilocks\_4, JeTaime\_4, TeardropMSU\_3, DrDrey\_4, Cookies\_4, Teaspoon\_4, YassJohnny\_4, Amao\_4, ShereKhan\_4, Pat3\_4, Lilizi\_4, Greep\_4, Xandras\_4, Dusk\_4, Emmina\_4, Command613\_4, Hoonter\_4, SirDuracell\_4, AmericanBeauty\_4
- Track 3 : Bogg\_3
- Track 4 : Glexan\_3, Flypotenuse\_3, Balomoji\_3, Gator\_3, Sotrice96\_3, Harella\_3, Daikon\_2
- Track 5 : Tomaszewski\_4, Palpatine\_4, FoghornLeghorn\_4, Sassay\_4, Mosby\_4, Ptowny\_4, Phaux\_3, MPhalcon\_4, Bruin\_4, FireRed\_4, Becksu\_4, Policronamos\_4, Misfit\_4, BugsBunny\_4, PhatBacter\_4, Liveloughbron\_4, Contagion\_4, MISSy\_4, Nala\_4, Willez\_4, Terminus\_4, Youngblood\_4
- Track 6 : Barbarian\_3, Traaww1\_3, Asriel\_3
- Track 7 : Goku\_3, Eureka\_2
- Track 8 : Manda\_4
- Track 9 : Highbury\_3, Saints25\_3
- Track 10 : NonchalantPear\_3
- Track 11 : Pumpkin\_3
- Track 12 : OrionPax\_3
- Track 13 : Murica\_3, HufflyPuff\_3

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

The start number called the most often in the published annotations is 11, it was called in 131 of the 131 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244\_3, ABCat\_3, Adnama\_4, Amao\_4, AmericanBeauty\_4, Argent26\_4, Asriel\_3, BaboJay\_4, BadStone\_3, Balomoji\_3, Barbarian\_3, Bask21\_4, Becksu\_4, Bench\_3, BigBubba\_4, BilboSwaggins\_4, Bogg\_3, Brewer\_4, Bruin\_4, Buck\_4, BugsBunny\_4, Cactus\_4, ChosenOne\_3, ChotaBhai\_4, Cjw1\_2, Command613\_4, Contagion\_4, Cookies\_4, CrystalP\_4, Czyszczonek\_3, Daikon\_2, DoctorDiddles\_3, DrDrey\_4, Dumbo\_2, Dusk\_4, Easy2Say\_3, Elite2014\_3, Elph10\_3, Emmina\_4, Eureka\_2, FairyPath\_4, Filch\_3, FireRed\_4, Flypotenuse\_3, FoghornLeghorn\_4, Gage\_4, Gator\_3, Gemini\_4, Glexan\_3, Goku\_3, GoldenSpark\_4, Goldilocks\_4, GooberAzure\_4, Greep\_4, HanKaySha\_3, Harella\_3, Henry\_4, Highbury\_3, Holt\_3, Hoonter\_4, Hopey\_3, HuffyPuff\_3, IHOP\_4, Icee\_4, Inca\_4, JeTaime\_4, Kanye\_4, Kimchi\_4, Kostya\_4, Lilac\_4, Lilizi\_4, Lilpickle\_3, Liveloughbron\_4, MISSy\_4, MPhalcon\_4, MadamMonkfish\_3, Manda\_4, Marshmallow\_4, Maxxinista\_3, Mindy\_4, Miniwave\_4, Misfit\_4, Moldemort\_3, MollyToe\_4, Mosby\_4, Murica\_3, Murphy\_3, Myrale\_4, Nala\_4, NelitzaMV\_4, Nimrod\_4, NoSleep\_3, NonchalantPear\_3, OrionPax\_3, PaddyBaddy\_3, Palpatine\_4, Paperbeatsrock\_4, Pat3\_4, Petra64142\_4, Phaja\_4, Pharsalus\_4, PhatBacter\_4, Phaux\_3, Phrux\_2, Policronamos\_4, Porky\_3, Ptowny\_4, Pumpkin\_3, Quallification\_4, Rakim\_4, Rimmer\_4, RiverMonster\_2, Saints25\_3, Sassay\_4, ShamWow\_4, ShereKhan\_4, Simpliphy\_3, SirDuracell\_4, SophKB\_4, Sotrice96\_3, Stank\_4, Stark\_3, StellaBean\_4, StolenFromERC\_4, StormChicken\_4, TBrady12\_4, Tarkin\_4, TeamEdward\_4, TeardropMSU\_3, Teaspoon\_4, Terminus\_4, Thimble\_3, Thresher\_3, Tomaszewski\_4, Toto\_4, Traaww1\_3, Tuco\_4, Ukulele\_2, Wiggin\_4, Willez\_4, Xandras\_4, YassJohnny\_4, Youngblood\_4, xkcd\_4,

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 11:

- Found in 144 of 144 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 131 of 131
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244\_3 (E), ABCat\_3 (E), Adnama\_4 (E), Amao\_4 (E), AmericanBeauty\_4 (E), Argent26\_4 (E), Asriel\_3 (E), BaboJay\_4 (E), BadStone\_3 (E), Balomoji\_3 (E), Barbarian\_3 (E), Bask21\_4 (E), Becksu\_4 (E), Bench\_3 (E), BigBubba\_4 (E), BilboSwaggins\_4 (E), Bogg\_3 (E), Brewer\_4 (E), Bruin\_4 (E), Buck\_4 (E), BugsBunny\_4 (E), Cactus\_4 (E), ChosenOne\_3 (E), ChotaBhai\_4 (E), Cjw1\_2 (E), Command613\_4 (E), Contagion\_4 (E), Cookies\_4 (E), CrystalP\_4 (E), Czyszczonek\_3 (E), Daikon\_2 (E), DoctorDiddles\_3 (E), DrDrey\_4 (E), Dumbo\_2 (E), Dusk\_4 (E), Easy2Say\_3 (E), Elite2014\_3 (E), Elph10\_3 (E), Emmina\_4 (E), Eureka\_2 (E), FairyPath\_4 (E), Filch\_3 (E), FireRed\_4 (E), Flypotenuse\_3 (E), FoghornLeghorn\_4 (E), Gage\_4 (E), Gator\_3 (E), Gemini\_4 (E), Glexan\_3 (E), Goku\_3 (E), GoldenSpark\_4 (E), Goldilocks\_4 (E), GooberAzure\_4 (E), Greep\_4 (E), HanKaySha\_3 (E), Harella\_3 (E), Henry\_4 (E), Highbury\_3 (E), Holt\_3

(E), Hoonter\_4 (E), Hopey\_3 (E), HufflyPuff\_3 (E), IHOP\_4 (E), Icee\_4 (E), Inca\_4 (E), JeTaime\_4 (E), Kanye\_4 (E), Kimchi\_4 (E), Kostya\_4 (E), Lilac\_4 (E), Lilizi\_4 (E), Lilpickle\_3 (E), Livelaughbron\_4 (E), MISSy\_4 (E), MPhalcon\_4 (E), MadamMonkfish\_3 (E), Manda\_4 (E), Marshmallow\_4 (E), Maxxinista\_3 (E), Mindy\_4 (E), Miniwave\_4 (E), Misfit\_4 (E), Moldemort\_3 (E), MollyToe\_4 (E), Mosby\_4 (E), Murica\_3 (E), Murphy\_3 (E), Myrale\_4 (E), Nala\_4 (E), NelitzaMV\_4 (E), Nimrod\_4 (E), NoSleep\_3 (E), NonchalantPear\_3 (E), OrionPax\_3 (E), PaddyBaddy\_3 (E), Palpatine\_4 (E), Paperbeatsrock\_4 (E), Pat3\_4 (E), Petra64142\_4 (E), Phaja\_4 (E), Pharsalus\_4 (E), PhatBacter\_4 (E), Phaux\_3 (E), Phrux\_2 (E), Policronamos\_4 (E), Porky\_3 (E), Ptowny\_4 (E), Pumpkin\_3 (E), Qualification\_4 (E), Rakim\_4 (E), Rimmer\_4 (E), RiverMonster\_2 (E), Saints25\_3 (E), Sassay\_4 (E), ShamWow\_4 (E), ShereKhan\_4 (E), Simpliphy\_3 (E), SirDuracell\_4 (E), SophKB\_4 (E), Sotrice96\_3 (E), Stank\_4 (E), Stark\_3 (E), StellaBean\_4 (E), StolenFromERC\_4 (E), StormChicken\_4 (E), TBrady12\_4 (E), Tarkin\_4 (E), TeamEdward\_4 (E), TeardropMSU\_3 (E), Teaspoon\_4 (E), Terminus\_4 (E), Thimble\_3 (E), Thresher\_3 (E), Tomaszewski\_4 (E), Toto\_4 (E), Traaww1\_3 (E), Tuco\_4 (E), Ukulele\_2 (E), Wiggin\_4 (E), Willez\_4 (E), Xandras\_4 (E), YassJohnny\_4 (E), Youngblood\_4 (E), xkcd\_4 (E),

### **Summary by clusters:**

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

•Start number 11 was manually annotated 131 times for cluster E.

### **Gene Information:**

Gene: 244\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for 244\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: ABCat\_3 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for ABCat\_3:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Adnama\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Adnama\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Amao\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Amao\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: AmericanBeauty\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for AmericanBeauty\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Argent26\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Argent26\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Asriel\_3 Start: 587, Stop: 772, Start Num: 11  
Candidate Starts for Asriel\_3:  
(Start: 11 @587 has 131 MA's), (12, 665),

Gene: BaboJay\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for BaboJay\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: BadStone\_3 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for BadStone\_3:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Balomoji\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Balomoji\_3:  
(7, 347), (10, 422), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Barbarian\_3 Start: 587, Stop: 772, Start Num: 11  
Candidate Starts for Barbarian\_3:  
(Start: 11 @587 has 131 MA's), (12, 665),

Gene: Bask21\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Bask21\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Becksu\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for Becksu\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Bench\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Bench\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: BigBubba\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for BigBubba\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: BilboSwaggins\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for BilboSwaggins\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Bogg\_3 Start: 616, Stop: 801, Start Num: 11  
Candidate Starts for Bogg\_3:  
(8, 433), (Start: 11 @616 has 131 MA's), (12, 694),

Gene: Brewer\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Brewer\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Bruin\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for Bruin\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Buck\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Buck\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: BugsBunny\_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for BugsBunny\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Cactus\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Cactus\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: ChosenOne\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for ChosenOne\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: ChotaBhai\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for ChotaBhai\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Cjw1\_2 Start: 566, Stop: 751, Start Num: 11

Candidate Starts for Cjw1\_2:

(2, 164), (4, 242), (10, 422), (Start: 11 @566 has 131 MA's), (12, 644),

Gene: Command613\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Command613\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Contagion\_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Contagion\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Cookies\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Cookies\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: CrystalP\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for CrystalP\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Czyszczone1\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Czyszczone1\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Daikon\_2 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Daikon\_2:

(7, 347), (10, 422), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: DoctorDiddles\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for DoctorDiddles\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: DrDrey\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for DrDrey\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Dumbo\_2 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Dumbo\_2:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Dusk\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Dusk\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Easy2Say\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Easy2Say\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Elite2014\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Elite2014\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Elph10\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Elph10\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Emmina\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Emmina\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Eureka\_2 Start: 446, Stop: 631, Start Num: 11  
Candidate Starts for Eureka\_2:  
(2, 155), (4, 233), (Start: 11 @446 has 131 MA's), (12, 524),

Gene: FairyPath\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for FairyPath\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Filch\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Filch\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: FireRed\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for FireRed\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Flypotenuse\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Flypotenuse\_3:  
(7, 347), (10, 422), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: FoghornLeghorn\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for FoghornLeghorn\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Gage\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Gage\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Gator\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Gator\_3:

(7, 347), (10, 422), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Gemini\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Gemini\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Glexan\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Glexan\_3:

(7, 347), (10, 422), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Goku\_3 Start: 446, Stop: 631, Start Num: 11

Candidate Starts for Goku\_3:

(2, 155), (4, 233), (Start: 11 @446 has 131 MA's), (12, 524),

Gene: GoldenSpark\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for GoldenSpark\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Goldilocks\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Goldilocks\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: GooberAzure\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for GooberAzure\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Greep\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Greep\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: HanKaySha\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for HanKaySha\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Harella\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Harella\_3:

(7, 347), (10, 422), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Henry\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Henry\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Highbury\_3 Start: 566, Stop: 751, Start Num: 11

Candidate Starts for Highbury\_3:

(1, 155), (3, 233), (10, 413), (Start: 11 @566 has 131 MA's), (12, 644),

Gene: Holt\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Holt\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Hoonter\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Hoonter\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Hokey\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Hokey\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: HufflyPuff\_3 Start: 557, Stop: 739, Start Num: 11

Candidate Starts for HufflyPuff\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635), (13, 725),

Gene: IHOP\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for IHOP\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Icee\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Icee\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Inca\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Inca\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: JeTaime\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for JeTaime\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Kanye\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Kanye\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Kimchi\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Kimchi\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Kostya\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Kostya\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Lilac\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Lilac\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Lilizi\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Lilizi\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Lilpickle\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Lilpickle\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Livelyaughbron\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for Livelyaughbron\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: MISSy\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for MISSy\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: MPhalcon\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for MPhalcon\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: MadamMonkfish\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for MadamMonkfish\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Manda\_4 Start: 616, Stop: 798, Start Num: 11  
Candidate Starts for Manda\_4:  
(8, 433), (Start: 11 @616 has 131 MA's), (12, 694), (13, 784),

Gene: Marshmallow\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Marshmallow\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Maxxinista\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Maxxinista\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Mindy\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Mindy\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Miniwave\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Miniwave\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Misfit\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for Misfit\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Moldemort\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Moldemort\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: MollyToe\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for MollyToe\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Mosby\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for Mosby\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Murica\_3 Start: 557, Stop: 739, Start Num: 11

Candidate Starts for Murica\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635), (13, 725),

Gene: Murphy\_3 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Murphy\_3:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Myrale\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Myrale\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Nala\_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Nala\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: NelitzaMV\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for NelitzaMV\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Nimrod\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Nimrod\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: NoSleep\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for NoSleep\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: NonchalantPear\_3 Start: 587, Stop: 769, Start Num: 11

Candidate Starts for NonchalantPear\_3:

(Start: 11 @587 has 131 MA's), (12, 665), (13, 755),

Gene: OrionPax\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for OrionPax\_3:

(2, 155), (4, 233), (5, 248), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: PaddyBaddy\_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for PaddyBaddy\_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Palpatine\_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Palpatine\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Paperbeatsrock\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Paperbeatsrock\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Pat3\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Pat3\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Petra64142\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Petra64142\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Phaja\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Phaja\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Pharsalus\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Pharsalus\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: PhatBacter\_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for PhatBacter\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Phaux\_3 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Phaux\_3:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Phrux\_2 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Phrux\_2:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Policronamos\_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Policronamos\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Porky\_3 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Porky\_3:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Ptowny\_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Ptowny\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Pumpkin\_3 Start: 558, Stop: 743, Start Num: 11

Candidate Starts for Pumpkin\_3:

(6, 267), (10, 414), (Start: 11 @558 has 131 MA's), (12, 636),

Gene: Quallification\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Quallification\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Rakim\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Rakim\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Rimmer\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Rimmer\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: RiverMonster\_2 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for RiverMonster\_2:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Saints25\_3 Start: 566, Stop: 751, Start Num: 11  
Candidate Starts for Saints25\_3:  
(1, 155), (3, 233), (10, 413), (Start: 11 @566 has 131 MA's), (12, 644),

Gene: Sassay\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for Sassay\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: ShamWow\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for ShamWow\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: ShereKhan\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for ShereKhan\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Simpliphy\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Simpliphy\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: SirDuracell\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for SirDuracell\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: SophKB\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for SophKB\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Sotrice96\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Sotrice96\_3:  
(7, 347), (10, 422), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Stank\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Stank\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Stark\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Stark\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: StellaBean\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for StellaBean\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: StolenFromERC\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for StolenFromERC\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: StormChicken\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for StormChicken\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: TBrady12\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for TBrady12\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Tarkin\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Tarkin\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: TeamEdward\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for TeamEdward\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: TeardropMSU\_3 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for TeardropMSU\_3:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Teaspoon\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Teaspoon\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Terminus\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for Terminus\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Thimble\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Thimble\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Thresher\_3 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Thresher\_3:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Tomaszewski\_4 Start: 601, Stop: 783, Start Num: 11  
Candidate Starts for Tomaszewski\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Toto\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Toto\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Traaww1\_3 Start: 587, Stop: 772, Start Num: 11  
Candidate Starts for Traaww1\_3:  
(Start: 11 @587 has 131 MA's), (12, 665),

Gene: Tuco\_4 Start: 601, Stop: 786, Start Num: 11  
Candidate Starts for Tuco\_4:  
(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Ukulele\_2 Start: 557, Stop: 742, Start Num: 11  
Candidate Starts for Ukulele\_2:  
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 131 MA's), (12, 635),

Gene: Wiggin\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Wiggin\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Willez\_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Willez\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: Xandras\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Xandras\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: YassJohnny\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for YassJohnny\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),

Gene: Youngblood\_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Youngblood\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679), (13, 769),

Gene: xkcd\_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for xkcd\_4:

(9, 427), (Start: 11 @601 has 131 MA's), (12, 679),