



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 283662 Report

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

Pham number 283662 has 101 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Eaglepride\_68
- Track 2 : OKCentral2016\_65
- Track 3 : RhynO\_66
- Track 4 : LochMonster\_68, Kingmustik0402\_67, Lunsford\_67, Maverick\_66, Eris\_66, Phontbonne\_67, Kamy\_66, Skipitt\_66, DirtyDunning\_66, Phacado\_67, Funston\_66, Sparxx\_68, Blackmoor\_66, OKaNui\_66, Eros\_67, Romney\_66, Sabertooth\_67, MeeZee\_66, Clarenza\_66, Houdini22\_66, Shaka\_65, PeterPeter\_67, Huxley\_64, Wander\_67, Avle17\_67, Iceman\_66, KekoraPapaka\_64, SeniorClean\_68, Melvin\_69, Koan\_64, Mazhar510\_67, JoongJeon\_66, Peaches\_65, Burger\_65, NorthStar\_65, Mayonnaise\_64, HamSlice\_63, Pumbaa\_67, Millski\_66, Jaykayelowell\_64, Eapen\_67, Deano\_64, Alberto7\_68, Spino\_66, Bruiser\_66, Roosevelt\_65, Kyee\_67, TinaFeyge\_65, KFPoly\_66, Broseidon\_67, Abdiel\_67, NotAPhaseMom\_66, Connomayer\_67, Palestino\_66, Nyxis\_66, Ruin\_67, Commander\_65, Bartimeaus\_67, SteMason\_63, Koreni\_66, Cocoaberry\_67, Lorenzo\_67, Florean\_67, Scamp\_67, Nemo27\_66, Camperdownii\_65, Medusa\_67, Gadost\_67, YoSam321\_67, Bombshell\_67, LittleB\_67, Wilbur\_67, Dhanush\_67, Pipcraft\_64, Relief\_66, Ulysses\_66, Sultana\_67, Druantia\_66, Chaph\_67, Annyong\_66, Phighter1804\_67, Arturo\_64, Holli\_66, LittleGuy\_67, TygerBlood\_67, Albee\_67, Maxo\_68, Citius\_67, Flux\_67, Baby16\_67, RockieBear\_64, Iracema64\_67, TiroTheta9\_66, Tinybot\_66, LappelDuVide\_67, Caelakin\_66
- Track 5 : Thanksgivukkah\_66
- Track 6 : Lemur\_67

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

The start number called the most often in the published annotations is 3, it was called in 94 of the 97 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abdiel\_67, Albee\_67, Alberto7\_68, Annyong\_66, Arturo\_64, Avle17\_67, Baby16\_67, Bartimeaus\_67, Blackmoor\_66, Bombshell\_67, Broseidon\_67, Bruiser\_66, Burger\_65, Caelakin\_66, Camperdownii\_65, Chaph\_67, Citius\_67, Clarenza\_66, Cocoaberry\_67, Commander\_65, Connomayer\_67, Deano\_64, Dhanush\_67, DirtyDunning\_66, Druantia\_66, Eapen\_67, Eris\_66, Eros\_67, Florean\_67, Flux\_67,

Funston\_66, Gadost\_67, HamSlice\_63, Holli\_66, Houdini22\_66, Huxley\_64, Iceman\_66, Iracema64\_67, Jaykayelowell\_64, JoongJeon\_66, KFPoly\_66, Kamy\_66, KekoraPapaka\_64, Kingmustik0402\_67, Koan\_64, Koreni\_66, Kyee\_67, LappelDuVide\_67, Lemur\_67, LittleB\_67, LittleGuy\_67, LochMonster\_68, Lorenzo\_67, Lunsford\_67, Maverick\_66, Maxo\_68, Mayonnaise\_64, Mazhar510\_67, Medusa\_67, MeeZee\_66, Melvin\_69, Millski\_66, Nemo27\_66, NorthStar\_65, NotAPhaseMom\_66, Nyxis\_66, OKaNui\_66, Palestino\_66, Peaches\_65, PeterPeter\_67, Phacado\_67, Phighter1804\_67, Phontbonne\_67, Pipcraft\_64, Pumbaa\_67, Relief\_66, RockieBear\_64, Romney\_66, Roosevelt\_65, Ruin\_67, Sabertooth\_67, Scamp\_67, SeniorClean\_68, Shaka\_65, Skipitt\_66, Sparxx\_68, Spino\_66, SteMason\_63, Sultana\_67, Thanksgivukkah\_66, TinaFeyge\_65, Tinybot\_66, TiroTheta9\_66, TygerBlood\_67, Ulysses\_66, Wander\_67, Wilbur\_67, YoSam321\_67,

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

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

- Eaglepride\_68, OKCentral2016\_65, RhyNO\_66,

### Summary by start number:

Start 1:

- Found in 2 of 101 ( 2.0% ) of genes in pham
- Manual Annotations of this start: 2 of 97
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OKCentral2016\_65 (A10), RhyNO\_66 (A10),

Start 3:

- Found in 98 of 101 ( 97.0% ) of genes in pham
- Manual Annotations of this start: 94 of 97
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abdiel\_67 (A4), Albee\_67 (A4), Alberto7\_68 (A4), Annyong\_66 (A4), Arturo\_64 (A4), Avle17\_67 (A4), Baby16\_67 (A4), Bartimeaus\_67 (A4), Blackmoor\_66 (A4), Bombshell\_67 (A4), Broseidon\_67 (A4), Bruiser\_66 (A4), Burger\_65 (A4), Caelakin\_66 (A4), Camperdownii\_65 (A4), Chaph\_67 (A4), Citius\_67 (A4), Clarenza\_66 (A4), Cocoaberry\_67 (A4), Commander\_65 (A4), Connomayer\_67 (A4), Deano\_64 (A4), Dhanush\_67 (A4), DirtyDunning\_66 (A4), Druantia\_66 (A4), Eapen\_67 (A4), Eris\_66 (A4), Eros\_67 (A4), Florean\_67 (A4), Flux\_67 (A4), Funston\_66 (A4), Gadost\_67 (A4), HamSlice\_63 (A4), Holli\_66 (A4), Houdini22\_66 (A4), Huxley\_64 (A4), Iceman\_66 (A4), Iracema64\_67 (A4), Jaykayelowell\_64 (A4), JoongJeon\_66 (A4), KFPoly\_66 (A4), Kamy\_66 (A4), KekoraPapaka\_64 (A4), Kingmustik0402\_67 (A4), Koan\_64 (A4), Koreni\_66 (A4), Kyee\_67 (A4), LappelDuVide\_67 (A4), Lemur\_67 (A4), LittleB\_67 (A4), LittleGuy\_67 (A4), LochMonster\_68 (A4), Lorenzo\_67 (A4), Lunsford\_67 (A4), Maverick\_66 (A4), Maxo\_68 (A4), Mayonnaise\_64 (A4), Mazhar510\_67 (A4), Medusa\_67 (A4), MeeZee\_66 (A4), Melvin\_69 (A4), Millski\_66 (A4), Nemo27\_66 (A4), NorthStar\_65 (A4), NotAPhaseMom\_66 (A4), Nyxis\_66 (A4), OKaNui\_66 (A4), Palestino\_66 (A4), Peaches\_65 (A4), PeterPeter\_67 (A4), Phacado\_67 (A4), Phighter1804\_67 (A4), Phontbonne\_67 (A4), Pipcraft\_64 (A4), Pumbaa\_67 (A4), Relief\_66 (A4), RockieBear\_64 (A4), Romney\_66 (A4), Roosevelt\_65 (A4), Ruin\_67 (A4), Sabertooth\_67 (A4), Scamp\_67 (A4), SeniorClean\_68 (A4), Shaka\_65 (A4), Skipitt\_66

(A4), Sparxx\_68 (A4), Spino\_66 (A4), SteMason\_63 (A4), Sultana\_67 (A4), Thanksgivukkah\_66 (A4), TinaFeyge\_65 (A4), Tinybot\_66 (A4), TiroTheta9\_66 (A4), TygerBlood\_67 (A4), Ulysses\_66 (A4), Wander\_67 (A4), Wilbur\_67 (A4), YoSam321\_67 (A4),

Start 4:

- Found in 3 of 101 ( 3.0% ) of genes in pham
- Manual Annotations of this start: 1 of 97
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Eaglepride\_68 (A10),

### **Summary by clusters:**

There are 2 clusters represented in this pham: A4, A10,

Info for manual annotations of cluster A10:

- Start number 1 was manually annotated 2 times for cluster A10.
- Start number 4 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A4:

- Start number 3 was manually annotated 94 times for cluster A4.

### **Gene Information:**

Gene: Abdiel\_67 Start: 42370, Stop: 42173, Start Num: 3

Candidate Starts for Abdiel\_67:

(Start: 3 @42370 has 94 MA's), (5, 42313), (10, 42178),

Gene: Albee\_67 Start: 42357, Stop: 42160, Start Num: 3

Candidate Starts for Albee\_67:

(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Alberto7\_68 Start: 42694, Stop: 42497, Start Num: 3

Candidate Starts for Alberto7\_68:

(Start: 3 @42694 has 94 MA's), (5, 42637), (10, 42502),

Gene: Annyong\_66 Start: 42402, Stop: 42205, Start Num: 3

Candidate Starts for Annyong\_66:

(Start: 3 @42402 has 94 MA's), (5, 42345), (10, 42210),

Gene: Arturo\_64 Start: 42484, Stop: 42287, Start Num: 3

Candidate Starts for Arturo\_64:

(Start: 3 @42484 has 94 MA's), (5, 42427), (10, 42292),

Gene: Avle17\_67 Start: 42354, Stop: 42157, Start Num: 3

Candidate Starts for Avle17\_67:

(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: Baby16\_67 Start: 42368, Stop: 42171, Start Num: 3

Candidate Starts for Baby16\_67:

(Start: 3 @42368 has 94 MA's), (5, 42311), (10, 42176),

Gene: Bartimeaus\_67 Start: 42359, Stop: 42162, Start Num: 3  
Candidate Starts for Bartimeaus\_67:  
(Start: 3 @42359 has 94 MA's), (5, 42302), (10, 42167),

Gene: Blackmoor\_66 Start: 42359, Stop: 42162, Start Num: 3  
Candidate Starts for Blackmoor\_66:  
(Start: 3 @42359 has 94 MA's), (5, 42302), (10, 42167),

Gene: Bombshell\_67 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for Bombshell\_67:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: Broseidon\_67 Start: 42359, Stop: 42162, Start Num: 3  
Candidate Starts for Broseidon\_67:  
(Start: 3 @42359 has 94 MA's), (5, 42302), (10, 42167),

Gene: Bruiser\_66 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for Bruiser\_66:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Burger\_65 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for Burger\_65:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Caelakin\_66 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for Caelakin\_66:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Camperdownii\_65 Start: 42031, Stop: 41834, Start Num: 3  
Candidate Starts for Camperdownii\_65:  
(Start: 3 @42031 has 94 MA's), (5, 41974), (10, 41839),

Gene: Chaph\_67 Start: 42368, Stop: 42171, Start Num: 3  
Candidate Starts for Chaph\_67:  
(Start: 3 @42368 has 94 MA's), (5, 42311), (10, 42176),

Gene: Citius\_67 Start: 42378, Stop: 42181, Start Num: 3  
Candidate Starts for Citius\_67:  
(Start: 3 @42378 has 94 MA's), (5, 42321), (10, 42186),

Gene: Clarenza\_66 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for Clarenza\_66:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: Cocoaberry\_67 Start: 42361, Stop: 42164, Start Num: 3  
Candidate Starts for Cocoaberry\_67:  
(Start: 3 @42361 has 94 MA's), (5, 42304), (10, 42169),

Gene: Commander\_65 Start: 42356, Stop: 42159, Start Num: 3  
Candidate Starts for Commander\_65:  
(Start: 3 @42356 has 94 MA's), (5, 42299), (10, 42164),

Gene: Connomayer\_67 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for Connomayer\_67:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Deano\_64 Start: 42365, Stop: 42168, Start Num: 3  
Candidate Starts for Deano\_64:  
(Start: 3 @42365 has 94 MA's), (5, 42308), (10, 42173),

Gene: Dhanush\_67 Start: 42360, Stop: 42163, Start Num: 3  
Candidate Starts for Dhanush\_67:  
(Start: 3 @42360 has 94 MA's), (5, 42303), (10, 42168),

Gene: DirtyDunning\_66 Start: 42372, Stop: 42175, Start Num: 3  
Candidate Starts for DirtyDunning\_66:  
(Start: 3 @42372 has 94 MA's), (5, 42315), (10, 42180),

Gene: Druantia\_66 Start: 42360, Stop: 42163, Start Num: 3  
Candidate Starts for Druantia\_66:  
(Start: 3 @42360 has 94 MA's), (5, 42303), (10, 42168),

Gene: Eaglepride\_68 Start: 41798, Stop: 41607, Start Num: 4  
Candidate Starts for Eaglepride\_68:  
(Start: 4 @41798 has 1 MA's), (9, 41657),

Gene: Eapen\_67 Start: 42352, Stop: 42155, Start Num: 3  
Candidate Starts for Eapen\_67:  
(Start: 3 @42352 has 94 MA's), (5, 42295), (10, 42160),

Gene: Eris\_66 Start: 42372, Stop: 42175, Start Num: 3  
Candidate Starts for Eris\_66:  
(Start: 3 @42372 has 94 MA's), (5, 42315), (10, 42180),

Gene: Eros\_67 Start: 42359, Stop: 42162, Start Num: 3  
Candidate Starts for Eros\_67:  
(Start: 3 @42359 has 94 MA's), (5, 42302), (10, 42167),

Gene: Florean\_67 Start: 42356, Stop: 42159, Start Num: 3  
Candidate Starts for Florean\_67:  
(Start: 3 @42356 has 94 MA's), (5, 42299), (10, 42164),

Gene: Flux\_67 Start: 42356, Stop: 42159, Start Num: 3  
Candidate Starts for Flux\_67:  
(Start: 3 @42356 has 94 MA's), (5, 42299), (10, 42164),

Gene: Funston\_66 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for Funston\_66:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Gadost\_67 Start: 42361, Stop: 42164, Start Num: 3  
Candidate Starts for Gadost\_67:  
(Start: 3 @42361 has 94 MA's), (5, 42304), (10, 42169),

Gene: HamSlice\_63 Start: 42355, Stop: 42158, Start Num: 3

Candidate Starts for HamSlice\_63:  
(Start: 3 @42355 has 94 MA's), (5, 42298), (10, 42163),

Gene: Holli\_66 Start: 42147, Stop: 41950, Start Num: 3  
Candidate Starts for Holli\_66:  
(Start: 3 @42147 has 94 MA's), (5, 42090), (10, 41955),

Gene: Houdini22\_66 Start: 42361, Stop: 42164, Start Num: 3  
Candidate Starts for Houdini22\_66:  
(Start: 3 @42361 has 94 MA's), (5, 42304), (10, 42169),

Gene: Huxley\_64 Start: 42421, Stop: 42224, Start Num: 3  
Candidate Starts for Huxley\_64:  
(Start: 3 @42421 has 94 MA's), (5, 42364), (10, 42229),

Gene: Iceman\_66 Start: 42646, Stop: 42449, Start Num: 3  
Candidate Starts for Iceman\_66:  
(Start: 3 @42646 has 94 MA's), (5, 42589), (10, 42454),

Gene: Iracema64\_67 Start: 42624, Stop: 42427, Start Num: 3  
Candidate Starts for Iracema64\_67:  
(Start: 3 @42624 has 94 MA's), (5, 42567), (10, 42432),

Gene: Jaykayelowell\_64 Start: 42350, Stop: 42153, Start Num: 3  
Candidate Starts for Jaykayelowell\_64:  
(Start: 3 @42350 has 94 MA's), (5, 42293), (10, 42158),

Gene: JoongJeon\_66 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for JoongJeon\_66:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: KFPoly\_66 Start: 42351, Stop: 42154, Start Num: 3  
Candidate Starts for KFPoly\_66:  
(Start: 3 @42351 has 94 MA's), (5, 42294), (10, 42159),

Gene: Kamy\_66 Start: 42359, Stop: 42162, Start Num: 3  
Candidate Starts for Kamy\_66:  
(Start: 3 @42359 has 94 MA's), (5, 42302), (10, 42167),

Gene: KekoraPapaka\_64 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for KekoraPapaka\_64:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Kingmustik0402\_67 Start: 42346, Stop: 42149, Start Num: 3  
Candidate Starts for Kingmustik0402\_67:  
(Start: 3 @42346 has 94 MA's), (5, 42289), (10, 42154),

Gene: Koan\_64 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for Koan\_64:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Koreni\_66 Start: 42038, Stop: 41841, Start Num: 3  
Candidate Starts for Koreni\_66:

(Start: 3 @42038 has 94 MA's), (5, 41981), (10, 41846),

Gene: Kyeey\_67 Start: 42355, Stop: 42158, Start Num: 3

Candidate Starts for Kyeey\_67:

(Start: 3 @42355 has 94 MA's), (5, 42298), (10, 42163),

Gene: LappelDuVide\_67 Start: 42356, Stop: 42159, Start Num: 3

Candidate Starts for LappelDuVide\_67:

(Start: 3 @42356 has 94 MA's), (5, 42299), (10, 42164),

Gene: Lemur\_67 Start: 42354, Stop: 42157, Start Num: 3

Candidate Starts for Lemur\_67:

(Start: 3 @42354 has 94 MA's), (10, 42162),

Gene: LittleB\_67 Start: 42358, Stop: 42161, Start Num: 3

Candidate Starts for LittleB\_67:

(Start: 3 @42358 has 94 MA's), (5, 42301), (10, 42166),

Gene: LittleGuy\_67 Start: 42253, Stop: 42056, Start Num: 3

Candidate Starts for LittleGuy\_67:

(Start: 3 @42253 has 94 MA's), (5, 42196), (10, 42061),

Gene: LochMonster\_68 Start: 42596, Stop: 42399, Start Num: 3

Candidate Starts for LochMonster\_68:

(Start: 3 @42596 has 94 MA's), (5, 42539), (10, 42404),

Gene: Lorenzo\_67 Start: 42357, Stop: 42160, Start Num: 3

Candidate Starts for Lorenzo\_67:

(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Lunsford\_67 Start: 42351, Stop: 42154, Start Num: 3

Candidate Starts for Lunsford\_67:

(Start: 3 @42351 has 94 MA's), (5, 42294), (10, 42159),

Gene: Maverick\_66 Start: 42357, Stop: 42160, Start Num: 3

Candidate Starts for Maverick\_66:

(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Maxo\_68 Start: 42359, Stop: 42162, Start Num: 3

Candidate Starts for Maxo\_68:

(Start: 3 @42359 has 94 MA's), (5, 42302), (10, 42167),

Gene: Mayonnaise\_64 Start: 42357, Stop: 42160, Start Num: 3

Candidate Starts for Mayonnaise\_64:

(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Mazhar510\_67 Start: 42358, Stop: 42161, Start Num: 3

Candidate Starts for Mazhar510\_67:

(Start: 3 @42358 has 94 MA's), (5, 42301), (10, 42166),

Gene: Medusa\_67 Start: 42371, Stop: 42174, Start Num: 3

Candidate Starts for Medusa\_67:

(Start: 3 @42371 has 94 MA's), (5, 42314), (10, 42179),

Gene: MeeZee\_66 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for MeeZee\_66:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: Melvin\_69 Start: 42352, Stop: 42155, Start Num: 3  
Candidate Starts for Melvin\_69:  
(Start: 3 @42352 has 94 MA's), (5, 42295), (10, 42160),

Gene: Millski\_66 Start: 42358, Stop: 42161, Start Num: 3  
Candidate Starts for Millski\_66:  
(Start: 3 @42358 has 94 MA's), (5, 42301), (10, 42166),

Gene: Nemo27\_66 Start: 42356, Stop: 42159, Start Num: 3  
Candidate Starts for Nemo27\_66:  
(Start: 3 @42356 has 94 MA's), (5, 42299), (10, 42164),

Gene: NorthStar\_65 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for NorthStar\_65:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: NotAPhaseMom\_66 Start: 42361, Stop: 42164, Start Num: 3  
Candidate Starts for NotAPhaseMom\_66:  
(Start: 3 @42361 has 94 MA's), (5, 42304), (10, 42169),

Gene: Nyxis\_66 Start: 42247, Stop: 42050, Start Num: 3  
Candidate Starts for Nyxis\_66:  
(Start: 3 @42247 has 94 MA's), (5, 42190), (10, 42055),

Gene: OKCentral2016\_65 Start: 41306, Stop: 41055, Start Num: 1  
Candidate Starts for OKCentral2016\_65:  
(Start: 1 @41306 has 2 MA's), (2, 41273), (Start: 4 @41249 has 1 MA's), (7, 41153), (9, 41105),

Gene: OKaNui\_66 Start: 42407, Stop: 42210, Start Num: 3  
Candidate Starts for OKaNui\_66:  
(Start: 3 @42407 has 94 MA's), (5, 42350), (10, 42215),

Gene: Palestino\_66 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for Palestino\_66:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Peaches\_65 Start: 42356, Stop: 42159, Start Num: 3  
Candidate Starts for Peaches\_65:  
(Start: 3 @42356 has 94 MA's), (5, 42299), (10, 42164),

Gene: PeterPeter\_67 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for PeterPeter\_67:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: Phacado\_67 Start: 42356, Stop: 42159, Start Num: 3  
Candidate Starts for Phacado\_67:  
(Start: 3 @42356 has 94 MA's), (5, 42299), (10, 42164),

Gene: Phighter1804\_67 Start: 42421, Stop: 42224, Start Num: 3  
Candidate Starts for Phighter1804\_67:  
(Start: 3 @42421 has 94 MA's), (5, 42364), (10, 42229),

Gene: Phontbonne\_67 Start: 42263, Stop: 42066, Start Num: 3  
Candidate Starts for Phontbonne\_67:  
(Start: 3 @42263 has 94 MA's), (5, 42206), (10, 42071),

Gene: Pipcraft\_64 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for Pipcraft\_64:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Pumbaa\_67 Start: 42302, Stop: 42105, Start Num: 3  
Candidate Starts for Pumbaa\_67:  
(Start: 3 @42302 has 94 MA's), (5, 42245), (10, 42110),

Gene: Relief\_66 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for Relief\_66:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: RhynO\_66 Start: 41808, Stop: 41539, Start Num: 1  
Candidate Starts for RhynO\_66:  
(Start: 1 @41808 has 2 MA's), (2, 41775), (Start: 4 @41757 has 1 MA's), (6, 41700), (9, 41589),

Gene: RockieBear\_64 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for RockieBear\_64:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Romney\_66 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for Romney\_66:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: Roosevelt\_65 Start: 42359, Stop: 42162, Start Num: 3  
Candidate Starts for Roosevelt\_65:  
(Start: 3 @42359 has 94 MA's), (5, 42302), (10, 42167),

Gene: Ruin\_67 Start: 42350, Stop: 42153, Start Num: 3  
Candidate Starts for Ruin\_67:  
(Start: 3 @42350 has 94 MA's), (5, 42293), (10, 42158),

Gene: Sabertooth\_67 Start: 42359, Stop: 42162, Start Num: 3  
Candidate Starts for Sabertooth\_67:  
(Start: 3 @42359 has 94 MA's), (5, 42302), (10, 42167),

Gene: Scamp\_67 Start: 42359, Stop: 42162, Start Num: 3  
Candidate Starts for Scamp\_67:  
(Start: 3 @42359 has 94 MA's), (5, 42302), (10, 42167),

Gene: SenorClean\_68 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for SenorClean\_68:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Shaka\_65 Start: 42354, Stop: 42157, Start Num: 3

Candidate Starts for Shaka\_65:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: Skipitt\_66 Start: 42351, Stop: 42154, Start Num: 3  
Candidate Starts for Skipitt\_66:  
(Start: 3 @42351 has 94 MA's), (5, 42294), (10, 42159),

Gene: Sparxx\_68 Start: 42352, Stop: 42155, Start Num: 3  
Candidate Starts for Sparxx\_68:  
(Start: 3 @42352 has 94 MA's), (5, 42295), (10, 42160),

Gene: Spino\_66 Start: 42360, Stop: 42163, Start Num: 3  
Candidate Starts for Spino\_66:  
(Start: 3 @42360 has 94 MA's), (5, 42303), (10, 42168),

Gene: SteMason\_63 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for SteMason\_63:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: Sultana\_67 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for Sultana\_67:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Thanksgivukkah\_66 Start: 42355, Stop: 42158, Start Num: 3  
Candidate Starts for Thanksgivukkah\_66:  
(Start: 3 @42355 has 94 MA's), (5, 42298), (8, 42244), (10, 42163),

Gene: TinaFeyge\_65 Start: 42352, Stop: 42155, Start Num: 3  
Candidate Starts for TinaFeyge\_65:  
(Start: 3 @42352 has 94 MA's), (5, 42295), (10, 42160),

Gene: Tinybot\_66 Start: 42387, Stop: 42190, Start Num: 3  
Candidate Starts for Tinybot\_66:  
(Start: 3 @42387 has 94 MA's), (5, 42330), (10, 42195),

Gene: TiroTheta9\_66 Start: 42351, Stop: 42154, Start Num: 3  
Candidate Starts for TiroTheta9\_66:  
(Start: 3 @42351 has 94 MA's), (5, 42294), (10, 42159),

Gene: TygerBlood\_67 Start: 42357, Stop: 42160, Start Num: 3  
Candidate Starts for TygerBlood\_67:  
(Start: 3 @42357 has 94 MA's), (5, 42300), (10, 42165),

Gene: Ulysses\_66 Start: 42043, Stop: 41846, Start Num: 3  
Candidate Starts for Ulysses\_66:  
(Start: 3 @42043 has 94 MA's), (5, 41986), (10, 41851),

Gene: Wander\_67 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for Wander\_67:  
(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: Wilbur\_67 Start: 42354, Stop: 42157, Start Num: 3  
Candidate Starts for Wilbur\_67:

(Start: 3 @42354 has 94 MA's), (5, 42297), (10, 42162),

Gene: YoSam321\_67 Start: 42351, Stop: 42154, Start Num: 3

Candidate Starts for YoSam321\_67:

(Start: 3 @42351 has 94 MA's), (5, 42294), (10, 42159),