



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 188106 Report

This analysis was run 11/02/24 on database version 579.

Pham number 188106 has 77 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Lucky10\_1
- Track 2 : PhorbesPhlower\_1, Morkie\_1
- Track 3 : ShaboiShabazz\_1, Peeb\_1, Kasen3\_1, Sweets\_1, Maliketh\_1, Plagueis\_1, Schiebel\_1, Darionha\_1, Wendigo\_1, GoldenAsh\_1, Cherrybomb426\_1, Hotshotbaby7\_1, DMoney\_1, Phish\_1, AzulaCat\_1, Sizemore\_1, Olga\_1, Grizzly\_1, Mowgli\_1, PinkYoshi\_1
- Track 4 : BruceB\_1, Coleslaw\_1, Barkley26\_1, ECartman\_1, Hope\_1, Rabbs\_1, Kareem\_1, Gomashi\_1, Camri\_1, Remy19\_1, Cedasite\_1, Halo\_1, Jolene\_1, Aroostook\_1, Periodt\_1, CassieYates\_1, Avrafan\_1, Jane\_1, Angel\_1, Chance64\_1, Frosty24\_1, TomBrady\_1, JorRay\_1, Annihilator\_1, ZoMa\_1, Marmie\_1, Zombie\_1, Crespo\_1, OctaviousRex\_1, BPs\_1, CLED96\_1, Sneeze\_1, Phreak\_1, LouisV14\_1, Renaissance\_1, BQuat\_1, Gideon\_1, Jonghyun\_1
- Track 5 : Liefie\_1
- Track 6 : Paito\_1
- Track 7 : DNAIII\_001
- Track 8 : Taheera\_1, Terror\_1
- Track 9 : Cambiare\_2
- Track 10 : Avocado\_1
- Track 11 : Pace1224\_1, FlagStaff\_1
- Track 12 : MOOREtheMARYer\_1
- Track 13 : Pinnie\_2
- Track 14 : Jolie2\_1
- Track 15 : Mercurio\_2
- Track 16 : Lemuria\_1
- Track 17 : Stargaze\_1
- Track 18 : Antsirabe\_1

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

The start number called the most often in the published annotations is 10, it was called in 40 of the 71 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angel\_1, Annihilator\_1, Aroostook\_1, Avrafan\_1, BPs\_1, BQuat\_1, Barkley26\_1, BruceB\_1, CLED96\_1, Camri\_1, CassieYates\_1, Cedasite\_1, Chance64\_1, Coleslaw\_1, Crespo\_1, DNAIII\_001, ECartman\_1, Frosty24\_1, Gideon\_1, Gomashi\_1, Halo\_1, Hope\_1, Jane\_1, Jolene\_1, Jonghyun\_1, JorRay\_1, Kareem\_1, Liefie\_1, LouisV14\_1, Marmie\_1, OctaviousRex\_1, Periodt\_1, Phreak\_1, Rabbs\_1, Remy19\_1, Renaissance\_1, Sneeze\_1, TomBrady\_1, ZoMa\_1, Zombie\_1,

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

- AzulaCat\_1, Cherrybomb426\_1, DMoney\_1, Darionha\_1, GoldenAsh\_1, Grizzly\_1, Hotshotbaby7\_1, Kasen3\_1, Maliketh\_1, Mowgli\_1, Olga\_1, Peeb\_1, Phish\_1, PinkYoshi\_1, Plagueis\_1, Schiebel\_1, ShaboiShabazz\_1, Sizemore\_1, Sweets\_1, Wendigo\_1,

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

- Antsirabe\_1, Avocado\_1, Cambiare\_2, FlagStaff\_1, Jolie2\_1, Lemuria\_1, Lucky10\_1, MOOREtheMARYer\_1, Mercurio\_2, Morkie\_1, Pace1224\_1, Paito\_1, PhorbesPhlower\_1, Pinnie\_2, Stargaze\_1, Taheera\_1, Terror\_1,

### Summary by start number:

Start 10:

- Found in 60 of 77 ( 77.9% ) of genes in pham
- Manual Annotations of this start: 40 of 71
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Angel\_1 (G1), Annihilator\_1 (G1), Aroostook\_1 (G1), Avrafan\_1 (G1), BPs\_1 (G1), BQuat\_1 (G1), Barkley26\_1 (G1), BruceB\_1 (G1), CLED96\_1 (G1), Camri\_1 (G1), CassieYates\_1 (G1), Cedasite\_1 (G1), Chance64\_1 (G1), Coleslaw\_1 (G1), Crespo\_1 (G1), DNAIII\_001 (G1), ECartman\_1 (G1), Frosty24\_1 (G1), Gideon\_1 (G1), Gomashi\_1 (G1), Halo\_1 (G1), Hope\_1 (G1), Jane\_1 (G1), Jolene\_1 (G1), Jonghyun\_1 (G1), JorRay\_1 (G1), Kareem\_1 (G1), Liefie\_1 (G1), LouisV14\_1 (G1), Marmie\_1 (G1), OctaviousRex\_1 (G1), Periodt\_1 (G1), Phreak\_1 (G1), Rabbs\_1 (G1), Remy19\_1 (G1), Renaissance\_1 (G1), Sneeze\_1 (G1), TomBrady\_1 (G1), ZoMa\_1 (G1), Zombie\_1 (G1),

Start 11:

- Found in 65 of 77 ( 84.4% ) of genes in pham
- Manual Annotations of this start: 20 of 71
- Called 36.9% of time when present
- Phage (with cluster) where this start called: AzulaCat\_1 (G1), Cherrybomb426\_1 (G1), DMoney\_1 (G1), Darionha\_1 (G1), GoldenAsh\_1 (G1), Grizzly\_1 (G1), Hotshotbaby7\_1 (G1), Jolie2\_1 (G4), Kasen3\_1 (G1), Lemuria\_1 (G4), Maliketh\_1 (G1), Mowgli\_1 (G1), Olga\_1 (G1), Peeb\_1 (G1), Phish\_1 (G1), PinkYoshi\_1 (G1), Plagueis\_1 (G1), Schiebel\_1 (G1), ShaboiShabazz\_1 (G1), Sizemore\_1 (G1), Sweets\_1 (G1), Taheera\_1 (G1), Terror\_1 (G1), Wendigo\_1 (G1),

Start 13:

- Found in 1 of 77 ( 1.3% ) of genes in pham
- Manual Annotations of this start: 1 of 71
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cambiare\_2 (G2),

Start 14:

- Found in 10 of 77 ( 13.0% ) of genes in pham
- Manual Annotations of this start: 8 of 71
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe\_1 (G5), Avocado\_1 (G2), FlagStaff\_1 (G2), Lucky10\_1 (DH), MOOREtheMARYer\_1 (G3), Morkie\_1 (DH), Pace1224\_1 (G2), PhorbesPhlower\_1 (DH), Pinnie\_2 (G3), Stargaze\_1 (G5),

Start 16:

- Found in 1 of 77 ( 1.3% ) of genes in pham
- Manual Annotations of this start: 1 of 71
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Paito\_1 (G1),

Start 18:

- Found in 1 of 77 ( 1.3% ) of genes in pham
- Manual Annotations of this start: 1 of 71
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mercurio\_2 (G4),

### **Summary by clusters:**

There are 6 clusters represented in this pham: G5, G4, G3, G1, DH, G2,

Info for manual annotations of cluster DH:

- Start number 14 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster G1:

- Start number 10 was manually annotated 40 times for cluster G1.
- Start number 11 was manually annotated 19 times for cluster G1.
- Start number 16 was manually annotated 1 time for cluster G1.

Info for manual annotations of cluster G2:

- Start number 13 was manually annotated 1 time for cluster G2.
- Start number 14 was manually annotated 2 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 14 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 11 was manually annotated 1 time for cluster G4.
- Start number 18 was manually annotated 1 time for cluster G4.

Info for manual annotations of cluster G5:

- Start number 14 was manually annotated 1 time for cluster G5.

### **Gene Information:**

Gene: Angel\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Angel\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Annihilator\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Annihilator\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Antsirabe\_1 Start: 53, Stop: 382, Start Num: 14

Candidate Starts for Antsirabe\_1:

(Start: 14 @53 has 8 MA's), (20, 80), (23, 146), (27, 191), (29, 215), (30, 245), (34, 266),

Gene: Aroostook\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Aroostook\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Avocado\_1 Start: 54, Stop: 380, Start Num: 14

Candidate Starts for Avocado\_1:

(Start: 14 @54 has 8 MA's), (23, 144), (25, 177), (27, 189), (33, 255), (36, 273), (37, 276), (39, 285),

Gene: Avrafan\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Avrafan\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: AzulaCat\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for AzulaCat\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: BPs\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for BPs\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: BQuat\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for BQuat\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Barkley26\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Barkley26\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: BruceB\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for BruceB\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: CLED96\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for CLED96\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Cambiare\_2 Start: 534, Stop: 869, Start Num: 13

Candidate Starts for Cambiare\_2:

(9, 384), (Start: 11 @525 has 20 MA's), (Start: 13 @534 has 1 MA's), (19, 555), (20, 564), (23, 633), (24, 651), (25, 666), (35, 756), (39, 774), (40, 783),

Gene: Camri\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Camri\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: CassieYates\_1 Start: 43, Stop: 387, Start Num: 10  
Candidate Starts for CassieYates\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Cedasite\_1 Start: 43, Stop: 387, Start Num: 10  
Candidate Starts for Cedasite\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Chance64\_1 Start: 43, Stop: 387, Start Num: 10  
Candidate Starts for Chance64\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Cherrybomb426\_1 Start: 46, Stop: 387, Start Num: 11  
Candidate Starts for Cherrybomb426\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Coleslaw\_1 Start: 43, Stop: 387, Start Num: 10  
Candidate Starts for Coleslaw\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Crespo\_1 Start: 44, Stop: 388, Start Num: 10  
Candidate Starts for Crespo\_1:  
(Start: 10 @44 has 40 MA's), (Start: 11 @47 has 20 MA's), (23, 149), (29, 218), (34, 269),

Gene: DMoney\_1 Start: 46, Stop: 387, Start Num: 11  
Candidate Starts for DMoney\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: DNAIII\_001 Start: 52, Stop: 396, Start Num: 10  
Candidate Starts for DNAIII\_001:  
(Start: 10 @52 has 40 MA's), (Start: 11 @55 has 20 MA's), (23, 157), (29, 226), (34, 277),

Gene: Darionha\_1 Start: 46, Stop: 387, Start Num: 11  
Candidate Starts for Darionha\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: ECartman\_1 Start: 43, Stop: 387, Start Num: 10  
Candidate Starts for ECartman\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: FlagStaff\_1 Start: 52, Stop: 387, Start Num: 14  
Candidate Starts for FlagStaff\_1:  
(Start: 14 @52 has 8 MA's), (20, 79), (29, 214), (30, 244),

Gene: Frosty24\_1 Start: 43, Stop: 387, Start Num: 10  
Candidate Starts for Frosty24\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Gideon\_1 Start: 43, Stop: 387, Start Num: 10  
Candidate Starts for Gideon\_1:  
(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: GoldenAsh\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for GoldenAsh\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Gomashi\_1 Start: 44, Stop: 388, Start Num: 10

Candidate Starts for Gomashi\_1:

(Start: 10 @44 has 40 MA's), (Start: 11 @47 has 20 MA's), (23, 149), (29, 218), (34, 269),

Gene: Grizzly\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Grizzly\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Halo\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Halo\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Hope\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Hope\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Hotshotbaby7\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Hotshotbaby7\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Jane\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Jane\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Jolene\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Jolene\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Jolie2\_1 Start: 45, Stop: 404, Start Num: 11

Candidate Starts for Jolie2\_1:

(Start: 11 @45 has 20 MA's), (32, 264), (36, 285), (44, 363),

Gene: Jonghyun\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Jonghyun\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: JorRay\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for JorRay\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Kareem\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Kareem\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Kasen3\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Kasen3\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Lemuria\_1 Start: 45, Stop: 404, Start Num: 11

Candidate Starts for Lemuria\_1:

(Start: 11 @45 has 20 MA's), (29, 225), (36, 285), (43, 360),

Gene: Liefie\_1 Start: 42, Stop: 386, Start Num: 10

Candidate Starts for Liefie\_1:

(Start: 10 @42 has 40 MA's), (Start: 11 @45 has 20 MA's), (23, 147), (29, 216), (34, 267), (40, 297),

Gene: LouisV14\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for LouisV14\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Lucky10\_1 Start: 45, Stop: 347, Start Num: 14

Candidate Starts for Lucky10\_1:

(Start: 14 @45 has 8 MA's), (21, 111), (22, 117), (23, 120), (26, 156), (27, 165), (28, 177), (35, 243), (42, 300),

Gene: MOOREtheMARYer\_1 Start: 53, Stop: 379, Start Num: 14

Candidate Starts for MOOREtheMARYer\_1:

(12, 50), (Start: 14 @53 has 8 MA's), (20, 80), (23, 143), (25, 176), (27, 188), (33, 254), (36, 272),

Gene: Maliketh\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Maliketh\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Marmie\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Marmie\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Mercurio\_2 Start: 700, Stop: 1044, Start Num: 18

Candidate Starts for Mercurio\_2:

(1, 271), (2, 343), (3, 349), (4, 355), (5, 415), (7, 514), (8, 523), (15, 691), (17, 697), (Start: 18 @700 has 1 MA's), (27, 844), (29, 868), (30, 898), (31, 901), (43, 1000),

Gene: Morkie\_1 Start: 44, Stop: 346, Start Num: 14

Candidate Starts for Morkie\_1:

(Start: 14 @44 has 8 MA's), (21, 110), (26, 155), (27, 164), (28, 176), (35, 242), (42, 299),

Gene: Mowgli\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Mowgli\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: OctaviousRex\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for OctaviousRex\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Olga\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Olga\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Pace1224\_1 Start: 52, Stop: 387, Start Num: 14

Candidate Starts for Pace1224\_1:

(Start: 14 @52 has 8 MA's), (20, 79), (29, 214), (30, 244),

Gene: Paito\_1 Start: 47, Stop: 382, Start Num: 16



Candidate Starts for Paito\_1:

(Start: 16 @47 has 1 MA's), (19, 62), (25, 173), (29, 209), (31, 242),

Gene: Peeb\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Peeb\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Periodt\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Periodt\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Phish\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Phish\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: PhorbesPhlower\_1 Start: 44, Stop: 346, Start Num: 14

Candidate Starts for PhorbesPhlower\_1:

(Start: 14 @44 has 8 MA's), (21, 110), (26, 155), (27, 164), (28, 176), (35, 242), (42, 299),

Gene: Phreak\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Phreak\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: PinkYoshi\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for PinkYoshi\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Pinnie\_2 Start: 520, Stop: 846, Start Num: 14

Candidate Starts for Pinnie\_2:

(6, 322), (Start: 14 @520 has 8 MA's), (20, 547), (23, 613), (25, 646), (27, 658), (33, 724), (36, 742), (38, 748),

Gene: Plagueis\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Plagueis\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Rabbs\_1 Start: 44, Stop: 388, Start Num: 10

Candidate Starts for Rabbs\_1:

(Start: 10 @44 has 40 MA's), (Start: 11 @47 has 20 MA's), (23, 149), (29, 218), (34, 269),

Gene: Remy19\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Remy19\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Renaissance\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Renaissance\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Schiebel\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Schiebel\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: ShaboiShabazz\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for ShaboiShabazz\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Sizemore\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Sizemore\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Sneeze\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Sneeze\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Stargaze\_1 Start: 52, Stop: 372, Start Num: 14

Candidate Starts for Stargaze\_1:

(Start: 14 @52 has 8 MA's), (23, 136), (27, 181), (29, 205), (34, 256), (41, 310),

Gene: Sweets\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Sweets\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Taheera\_1 Start: 47, Stop: 391, Start Num: 11

Candidate Starts for Taheera\_1:

(Start: 11 @47 has 20 MA's), (23, 149), (29, 218),

Gene: Terror\_1 Start: 47, Stop: 391, Start Num: 11

Candidate Starts for Terror\_1:

(Start: 11 @47 has 20 MA's), (23, 149), (29, 218),

Gene: TomBrady\_1 Start: 44, Stop: 388, Start Num: 10

Candidate Starts for TomBrady\_1:

(Start: 10 @44 has 40 MA's), (Start: 11 @47 has 20 MA's), (23, 149), (29, 218), (34, 269),

Gene: Wendigo\_1 Start: 46, Stop: 387, Start Num: 11

Candidate Starts for Wendigo\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: ZoMa\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for ZoMa\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),

Gene: Zombie\_1 Start: 43, Stop: 387, Start Num: 10

Candidate Starts for Zombie\_1:

(Start: 10 @43 has 40 MA's), (Start: 11 @46 has 20 MA's), (23, 148), (29, 217), (34, 268),