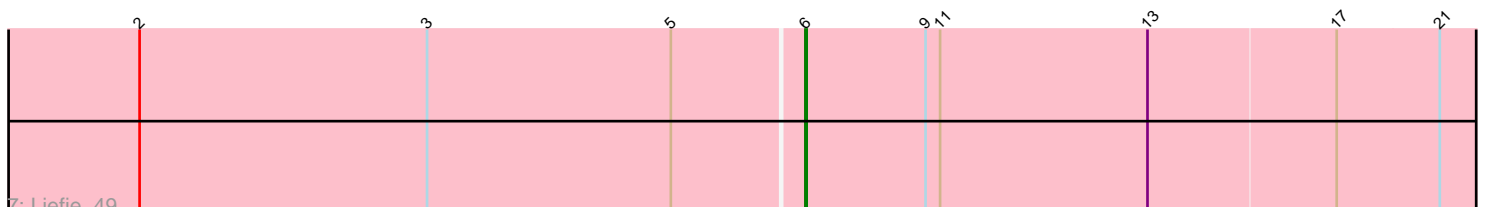
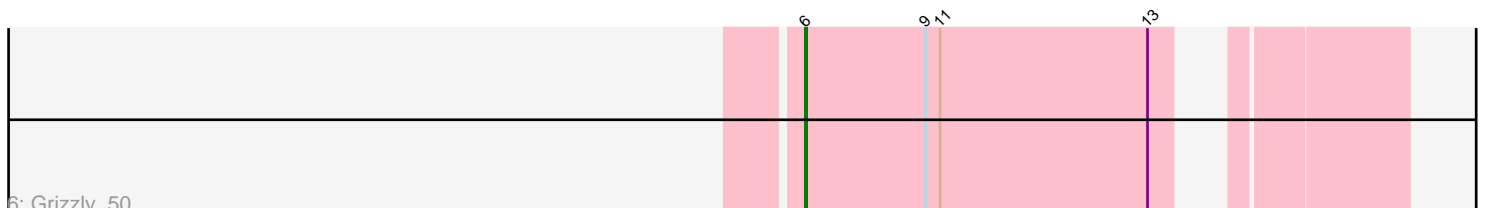
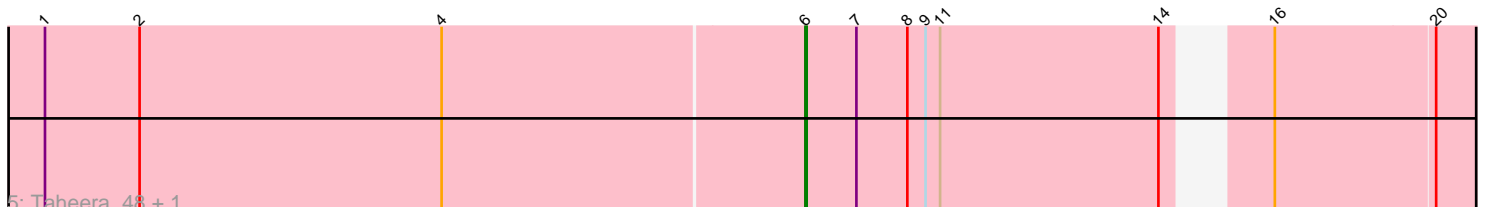
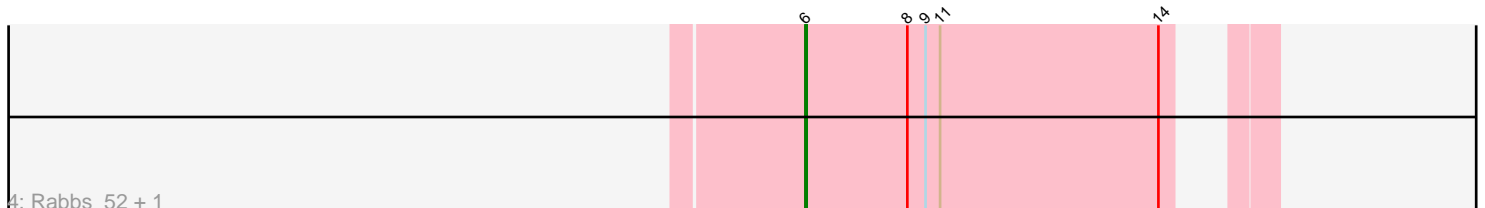
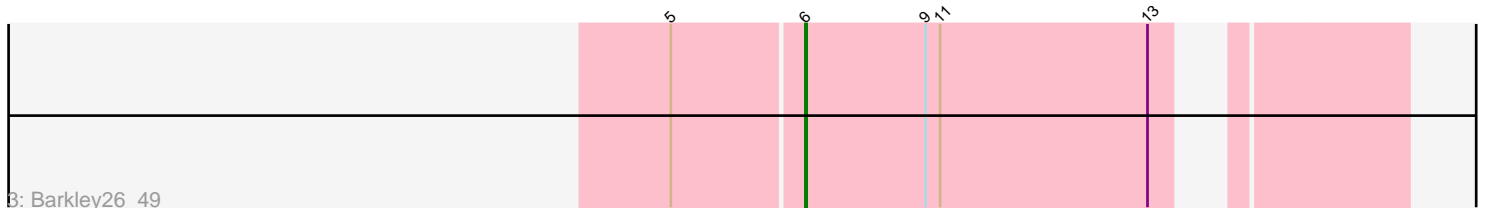
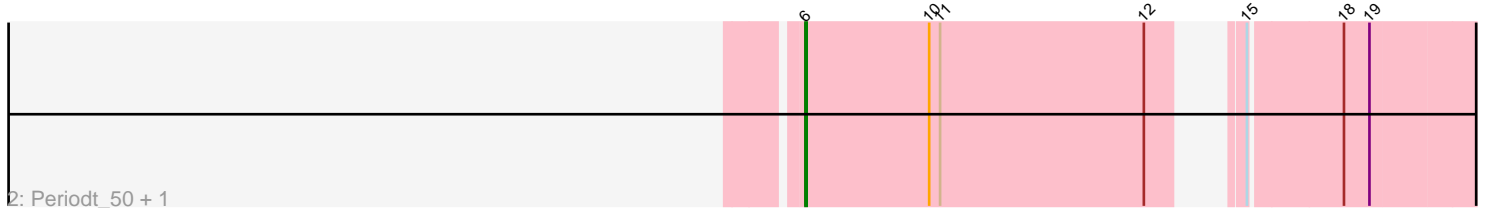
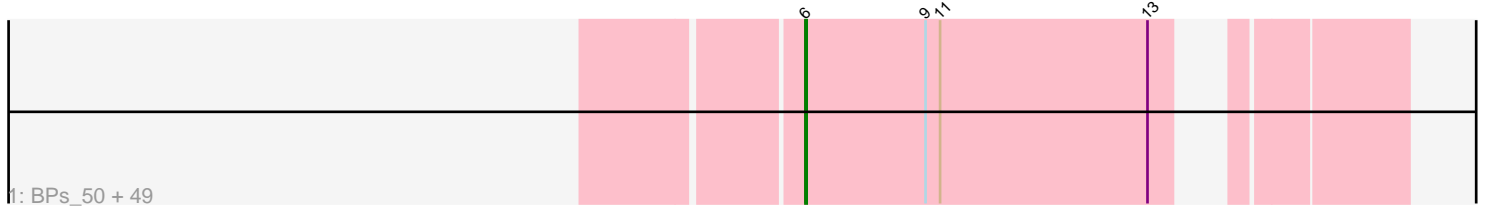


# Pham 157881



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 157881 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157881 has 59 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BPs\_50, DNAllI\_0048, Frosty24\_50, Darionha\_50, Kareem\_50, JorRay\_50, Zombie\_49, Schiebel\_50, TomBrady\_50, BruceB\_50, Coleslaw\_50, CLED96\_50, Annihilator\_50, Aroostook\_50, Phish\_49, Chance64\_50, Marmie\_50, Angel\_50, Avrafan\_50, Sizemore\_50, Kasen3\_50, PinkYoshi\_50, Plagueis\_50, Peeb\_49, CassieYates\_50, Crespo\_49, Olga\_50, Gideon\_51, Renaissance\_50, Cedasite\_50, OctaviousRex\_49, Halo\_50, Cherrybomb426\_50, LouisV14\_52, Camri\_50, DMoney\_49, BQuat\_50, Sweets\_49, ZoMa\_48, Jane\_50, Remy19\_50, Jonghyun\_48, ShaboiShabazz\_49, GoldenAsh\_49, Hotshotbaby7\_50, Hope\_50, Phreak\_50, ECartman\_48, Mowgli\_50, Gomashi\_49
- Track 2 : Periodt\_50, Jolene\_50
- Track 3 : Barkley26\_49
- Track 4 : Rabbs\_52, Sneeze\_51
- Track 5 : Taheera\_48, Terror\_48
- Track 6 : Grizzly\_50
- Track 7 : Liefie\_49

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

The start number called the most often in the published annotations is 6, it was called in 57 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angel\_50, Annihilator\_50, Aroostook\_50, Avrafan\_50, BPs\_50, BQuat\_50, Barkley26\_49, BruceB\_50, CLED96\_50, Camri\_50, CassieYates\_50, Cedasite\_50, Chance64\_50, Cherrybomb426\_50, Coleslaw\_50, Crespo\_49, DMoney\_49, DNAllI\_0048, Darionha\_50, ECartman\_48, Frosty24\_50, Gideon\_51, GoldenAsh\_49, Gomashi\_49, Grizzly\_50, Halo\_50, Hope\_50, Hotshotbaby7\_50, Jane\_50, Jolene\_50, Jonghyun\_48, JorRay\_50, Kareem\_50, Kasen3\_50, Liefie\_49, LouisV14\_52, Marmie\_50, Mowgli\_50, OctaviousRex\_49, Olga\_50, Peeb\_49, Periodt\_50, Phish\_49, Phreak\_50, PinkYoshi\_50, Plagueis\_50, Rabbs\_52, Remy19\_50, Renaissance\_50, Schiebel\_50, ShaboiShabazz\_49, Sizemore\_50, Sneeze\_51, Sweets\_49, Taheera\_48, Terror\_48, TomBrady\_50, ZoMa\_48, Zombie\_49,

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 6:

- Found in 59 of 59 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 57 of 57
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angel\_50 (G1), Annihilator\_50 (G1), Aroostook\_50 (G1), Avrafan\_50 (G1), BPs\_50 (G1), BQuat\_50 (G1), Barkley26\_49 (G1), BruceB\_50 (G1), CLED96\_50 (G1), Camri\_50 (G1), CassieYates\_50 (G1), Cedasite\_50 (G1), Chance64\_50 (G1), Cherrybomb426\_50 (G1), Coleslaw\_50 (G1), Crespo\_49 (G1), DMoney\_49 (G1), DNAIII\_0048 (G1), Darionha\_50 (G1), ECartman\_48 (G1), Frosty24\_50 (G1), Gideon\_51 (G1), GoldenAsh\_49 (G1), Gomashi\_49 (G1), Grizzly\_50 (G1), Halo\_50 (G1), Hope\_50 (G1), Hotshotbaby7\_50 (G1), Jane\_50 (G1), Jolene\_50 (G1), Jonghyun\_48 (G1), JorRay\_50 (G1), Kareem\_50 (G1), Kasen3\_50 (G1), Liefie\_49 (G1), LouisV14\_52 (G1), Marmie\_50 (G1), Mowgli\_50 (G1), OctaviousRex\_49 (G1), Olga\_50 (G1), Peeb\_49 (G1), Periodt\_50 (G1), Phish\_49 (G1), Phreak\_50 (G1), PinkYoshi\_50 (G1), Plagueis\_50 (G1), Rabbs\_52 (G1), Remy19\_50 (G1), Renaissance\_50 (G1), Schiebel\_50 (G1), ShaboiShabazz\_49 (G1), Sizemore\_50 (G1), Sneeze\_51 (G1), Sweets\_49 (G1), Taheera\_48 (G1), Terror\_48 (G1), TomBrady\_50 (G1), ZoMa\_48 (G1), Zombie\_49 (G1),

### Summary by clusters:

There is one cluster represented in this pham: G1

Info for manual annotations of cluster G1:

- Start number 6 was manually annotated 57 times for cluster G1.

### Gene Information:

Gene: Angel\_50 Start: 36462, Stop: 36902, Start Num: 6

Candidate Starts for Angel\_50:

(Start: 6 @36462 has 57 MA's), (9, 36561), (11, 36573), (13, 36744),

Gene: Annihilator\_50 Start: 36468, Stop: 36908, Start Num: 6

Candidate Starts for Annihilator\_50:

(Start: 6 @36468 has 57 MA's), (9, 36567), (11, 36579), (13, 36750),

Gene: Aroostook\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Aroostook\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Avrafan\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Avrafan\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: BPs\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for BPs\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: BQuat\_50 Start: 36914, Stop: 37354, Start Num: 6

Candidate Starts for BQuat\_50:

(Start: 6 @36914 has 57 MA's), (9, 37013), (11, 37025), (13, 37196),

Gene: Barkley26\_49 Start: 36379, Stop: 36822, Start Num: 6

Candidate Starts for Barkley26\_49:

(5, 36274), (Start: 6 @36379 has 57 MA's), (9, 36478), (11, 36490), (13, 36661),

Gene: BruceB\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for BruceB\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: CLED96\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for CLED96\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Camri\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Camri\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: CassieYates\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for CassieYates\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Cedasite\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Cedasite\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Chance64\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Chance64\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Cherrybomb426\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Cherrybomb426\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Coleslaw\_50 Start: 36914, Stop: 37354, Start Num: 6

Candidate Starts for Coleslaw\_50:

(Start: 6 @36914 has 57 MA's), (9, 37013), (11, 37025), (13, 37196),

Gene: Crespo\_49 Start: 36478, Stop: 36918, Start Num: 6

Candidate Starts for Crespo\_49:

(Start: 6 @36478 has 57 MA's), (9, 36577), (11, 36589), (13, 36760),

Gene: DMoney\_49 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for DMoney\_49:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: DNAIII\_0048 Start: 35012, Stop: 35452, Start Num: 6  
Candidate Starts for DNAIII\_0048:  
(Start: 6 @35012 has 57 MA's), (9, 35111), (11, 35123), (13, 35294),

Gene: Darionha\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Darionha\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: ECartman\_48 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for ECartman\_48:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Frosty24\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Frosty24\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Gideon\_51 Start: 36924, Stop: 37364, Start Num: 6  
Candidate Starts for Gideon\_51:  
(Start: 6 @36924 has 57 MA's), (9, 37023), (11, 37035), (13, 37206),

Gene: GoldenAsh\_49 Start: 36462, Stop: 36902, Start Num: 6  
Candidate Starts for GoldenAsh\_49:  
(Start: 6 @36462 has 57 MA's), (9, 36561), (11, 36573), (13, 36744),

Gene: Gomashi\_49 Start: 36478, Stop: 36918, Start Num: 6  
Candidate Starts for Gomashi\_49:  
(Start: 6 @36478 has 57 MA's), (9, 36577), (11, 36589), (13, 36760),

Gene: Grizzly\_50 Start: 36549, Stop: 36989, Start Num: 6  
Candidate Starts for Grizzly\_50:  
(Start: 6 @36549 has 57 MA's), (9, 36648), (11, 36660), (13, 36831),

Gene: Halo\_50 Start: 36472, Stop: 36912, Start Num: 6  
Candidate Starts for Halo\_50:  
(Start: 6 @36472 has 57 MA's), (9, 36571), (11, 36583), (13, 36754),

Gene: Hope\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Hope\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Hotshotbaby7\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Hotshotbaby7\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Jane\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Jane\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Jolene\_50 Start: 36570, Stop: 37079, Start Num: 6  
Candidate Starts for Jolene\_50:  
(Start: 6 @36570 has 57 MA's), (10, 36672), (11, 36681), (12, 36849), (15, 36885), (18, 36957), (19, 36978),

Gene: Jonghyun\_48 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Jonghyun\_48:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: JorRay\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for JorRay\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Kareem\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Kareem\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Kasen3\_50 Start: 36463, Stop: 36903, Start Num: 6  
Candidate Starts for Kasen3\_50:  
(Start: 6 @36463 has 57 MA's), (9, 36562), (11, 36574), (13, 36745),

Gene: Liefie\_49 Start: 36385, Stop: 37023, Start Num: 6  
Candidate Starts for Liefie\_49:  
(2, 35842), (3, 36079), (5, 36280), (Start: 6 @36385 has 57 MA's), (9, 36484), (11, 36496), (13, 36667), (17, 36820), (21, 36904),

Gene: LouisV14\_52 Start: 38742, Stop: 39182, Start Num: 6  
Candidate Starts for LouisV14\_52:  
(Start: 6 @38742 has 57 MA's), (9, 38841), (11, 38853), (13, 39024),

Gene: Marmie\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Marmie\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Mowgli\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Mowgli\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: OctaviousRex\_49 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for OctaviousRex\_49:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Olga\_50 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Olga\_50:  
(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Peeb\_49 Start: 36468, Stop: 36908, Start Num: 6  
Candidate Starts for Peeb\_49:  
(Start: 6 @36468 has 57 MA's), (9, 36567), (11, 36579), (13, 36750),

Gene: Periodt\_50 Start: 36561, Stop: 37070, Start Num: 6  
Candidate Starts for Periodt\_50:  
(Start: 6 @36561 has 57 MA's), (10, 36663), (11, 36672), (12, 36840), (15, 36876), (18, 36948), (19, 36969),

Gene: Phish\_49 Start: 36477, Stop: 36917, Start Num: 6  
Candidate Starts for Phish\_49:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Phreak\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Phreak\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: PinkYoshi\_50 Start: 36468, Stop: 36908, Start Num: 6

Candidate Starts for PinkYoshi\_50:

(Start: 6 @36468 has 57 MA's), (9, 36567), (11, 36579), (13, 36750),

Gene: Plagueis\_50 Start: 36297, Stop: 36737, Start Num: 6

Candidate Starts for Plagueis\_50:

(Start: 6 @36297 has 57 MA's), (9, 36396), (11, 36408), (13, 36579),

Gene: Rabbs\_52 Start: 36715, Stop: 37056, Start Num: 6

Candidate Starts for Rabbs\_52:

(Start: 6 @36715 has 57 MA's), (8, 36799), (9, 36814), (11, 36826), (14, 37006),

Gene: Remy19\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Remy19\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Renaissance\_50 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Renaissance\_50:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Schiebel\_50 Start: 36462, Stop: 36902, Start Num: 6

Candidate Starts for Schiebel\_50:

(Start: 6 @36462 has 57 MA's), (9, 36561), (11, 36573), (13, 36744),

Gene: ShaboiShabazz\_49 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for ShaboiShabazz\_49:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Sizemore\_50 Start: 36463, Stop: 36903, Start Num: 6

Candidate Starts for Sizemore\_50:

(Start: 6 @36463 has 57 MA's), (9, 36562), (11, 36574), (13, 36745),

Gene: Sneeze\_51 Start: 36714, Stop: 37055, Start Num: 6

Candidate Starts for Sneeze\_51:

(Start: 6 @36714 has 57 MA's), (8, 36798), (9, 36813), (11, 36825), (14, 37005),

Gene: Sweets\_49 Start: 36472, Stop: 36912, Start Num: 6

Candidate Starts for Sweets\_49:

(Start: 6 @36472 has 57 MA's), (9, 36571), (11, 36583), (13, 36754),

Gene: Taheera\_48 Start: 36090, Stop: 36704, Start Num: 6

Candidate Starts for Taheera\_48:

(1, 35469), (2, 35547), (4, 35796), (Start: 6 @36090 has 57 MA's), (7, 36132), (8, 36174), (9, 36189),  
(11, 36201), (14, 36381), (16, 36432), (20, 36561),

Gene: Terror\_48 Start: 36090, Stop: 36704, Start Num: 6

Candidate Starts for Terror\_48:

(1, 35469), (2, 35547), (4, 35796), (Start: 6 @36090 has 57 MA's), (7, 36132), (8, 36174), (9, 36189), (11, 36201), (14, 36381), (16, 36432), (20, 36561),

Gene: TomBrady\_50 Start: 36478, Stop: 36918, Start Num: 6

Candidate Starts for TomBrady\_50:

(Start: 6 @36478 has 57 MA's), (9, 36577), (11, 36589), (13, 36760),

Gene: ZoMa\_48 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for ZoMa\_48:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),

Gene: Zombie\_49 Start: 36477, Stop: 36917, Start Num: 6

Candidate Starts for Zombie\_49:

(Start: 6 @36477 has 57 MA's), (9, 36576), (11, 36588), (13, 36759),