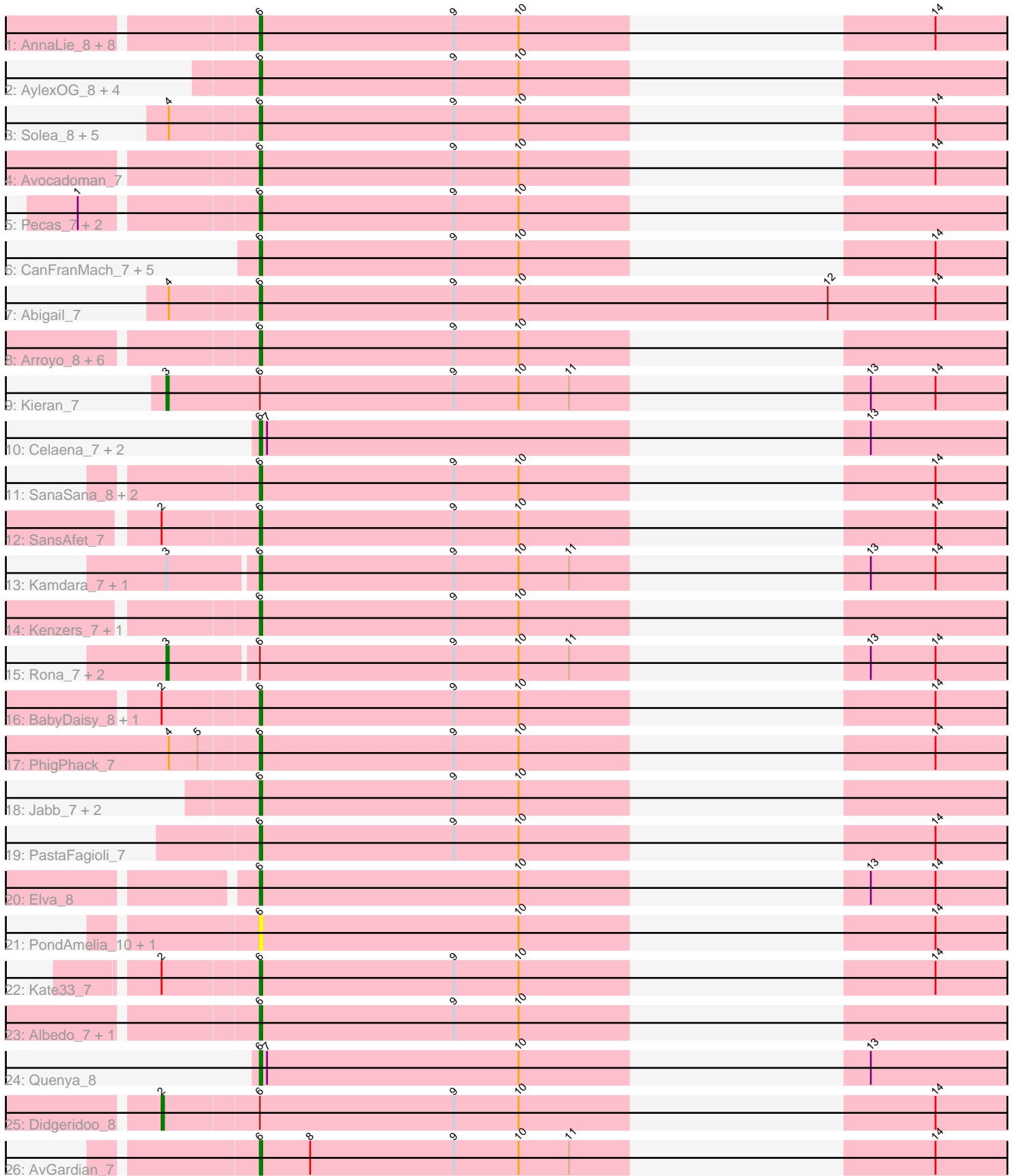


Pham 308561



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 308561 Report

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

Pham number 308561 has 69 members, 8 are drafts.

Phages represented in each track:

- Track 1 : AnnaLie\_8, Bengal\_7, BelmontSKP\_8, Doobus\_7, Lilo27\_7, Johnathan\_7, LimaBean\_7, Albright\_7, CroZenni\_7
- Track 2 : AylexOG\_8, SarBear\_7, TukTuk\_7, Finalfrontier\_8, Swervy\_7
- Track 3 : Solea\_8, DickRichards\_7, Lahqtemish\_7, Burritobowl\_7, Milomuff\_8, Cashington\_7
- Track 4 : Avocadoman\_7
- Track 5 : Pecas\_7, Eula\_7, QMacho\_8
- Track 6 : CanFranMach\_7, Akino08\_7, BabyYoda\_7, Icarian\_8, DirtyBubble\_7, Stromboli\_7
- Track 7 : Abigail\_7
- Track 8 : Arroyo\_8, Phisb\_7, Softsoap\_7, Slay\_7, SirBeanington\_7, BubbaBear\_7, Jovita\_7
- Track 9 : Kieran\_7
- Track 10 : Celaena\_7, Bachaco\_7, Katzastrophic\_7
- Track 11 : SanaSana\_8, Loviatar\_7, Stoor\_7
- Track 12 : SansAfet\_7
- Track 13 : Kamdara\_7, ChiliPepper\_7
- Track 14 : Kenzers\_7, Lynlen\_7
- Track 15 : Rona\_7, Sharkboy\_7, Dismas\_7
- Track 16 : BabyDaisy\_8, IndyLu\_7
- Track 17 : PhigPhack\_7
- Track 18 : Jabb\_7, MsUbiquitous\_7, CupcakePrincess\_7
- Track 19 : PastaFagioli\_7
- Track 20 : Elva\_8
- Track 21 : PondAmelia\_10, WalkingDead\_7
- Track 22 : Kate33\_7
- Track 23 : Albedo\_7, Nicky22\_8
- Track 24 : Quenya\_8
- Track 25 : Didgeridoo\_8
- Track 26 : AvGuardian\_7

***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 56 of the 61 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail\_7, Akino08\_7, Albedo\_7, Albright\_7, AnnaLie\_8, Arroyo\_8, AvGardian\_7, Avocadoman\_7, AylexOG\_8, BabyDaisy\_8, BabyYoda\_7, Bachaco\_7, BelmontSKP\_8, Bengal\_7, BubbaBear\_7, Burritobowl\_7, CanFranMach\_7, Cashington\_7, Celaena\_7, ChiliPepper\_7, CroZenni\_7, CupcakePrincess\_7, DickRichards\_7, DirtyBubble\_7, Doobus\_7, Elva\_8, Eula\_7, Finalfrontier\_8, Icarian\_8, IndyLu\_7, Jabb\_7, Johnathan\_7, Jovita\_7, Kamdara\_7, Kate33\_7, Katzastrophic\_7, Kenzers\_7, Lahqtemish\_7, Lilo27\_7, LimaBean\_7, Loviatar\_7, Lynlen\_7, Milomuff\_8, MsUbiquitous\_7, Nicky22\_8, PastaFagioli\_7, Pecas\_7, PhigPhack\_7, Phisb\_7, PondAmelia\_10, QMacho\_8, Quenya\_8, SanaSana\_8, SansAfet\_7, SarBear\_7, SirBeanington\_7, Slay\_7, Softsoap\_7, Solea\_8, Stoor\_7, Stromboli\_7, Swervy\_7, TukTuk\_7, WalkingDead\_7,

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

- Didgeridoo\_8, Dismas\_7, Kieran\_7, Rona\_7, Sharkboy\_7,

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

- 

### Summary by start number:

Start 2:

- Found in 5 of 69 ( 7.2% ) of genes in pham
- Manual Annotations of this start: 1 of 61
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Didgeridoo\_8 (EB),

Start 3:

- Found in 6 of 69 ( 8.7% ) of genes in pham
- Manual Annotations of this start: 4 of 61
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Dismas\_7 (EB), Kieran\_7 (EB), Rona\_7 (EB), Sharkboy\_7 (EB),

Start 6:

- Found in 69 of 69 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 56 of 61
- Called 92.8% of time when present
- Phage (with cluster) where this start called: Abigail\_7 (EB), Akino08\_7 (EB), Albedo\_7 (EB), Albright\_7 (EB), AnnaLie\_8 (EB), Arroyo\_8 (EB), AvGardian\_7 (EB), Avocadoman\_7 (EB), AylexOG\_8 (EB), BabyDaisy\_8 (EB), BabyYoda\_7 (EB), Bachaco\_7 (EB), BelmontSKP\_8 (EB), Bengal\_7 (EB), BubbaBear\_7 (EB), Burritobowl\_7 (EB), CanFranMach\_7 (EB), Cashington\_7 (EB), Celaena\_7 (EB), ChiliPepper\_7 (EB), CroZenni\_7 (EB), CupcakePrincess\_7 (EB), DickRichards\_7 (EB), DirtyBubble\_7 (EB), Doobus\_7 (EB), Elva\_8 (EB), Eula\_7 (EB), Finalfrontier\_8 (EB), Icarian\_8 (EB), IndyLu\_7 (EB), Jabb\_7 (EB), Johnathan\_7 (EB), Jovita\_7 (EB), Kamdara\_7 (EB), Kate33\_7 (EB), Katzastrophic\_7 (EB), Kenzers\_7 (EB), Lahqtemish\_7 (EB), Lilo27\_7 (EB), LimaBean\_7 (EB), Loviatar\_7 (EB), Lynlen\_7 (EB), Milomuff\_8 (EB), MsUbiquitous\_7 (EB), Nicky22\_8 (EB), PastaFagioli\_7 (EB), Pecas\_7 (EB), PhigPhack\_7 (EB), Phisb\_7 (EB), PondAmelia\_10 (EB), QMacho\_8

(EB), Quenya\_8 (EB), SanaSana\_8 (EB), SansAfet\_7 (EB), SarBear\_7 (EB), SirBeanington\_7 (EB), Slay\_7 (EB), Softsoap\_7 (EB), Solea\_8 (EB), Stoor\_7 (EB), Stromboli\_7 (EB), Swervy\_7 (EB), TukTuk\_7 (EB), WalkingDead\_7 (EB),

### **Summary by clusters:**

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 2 was manually annotated 1 time for cluster EB.
- Start number 3 was manually annotated 4 times for cluster EB.
- Start number 6 was manually annotated 56 times for cluster EB.

### **Gene Information:**

Gene: Abigail\_7 Start: 6418, Stop: 6849, Start Num: 6

Candidate Starts for Abigail\_7:

(4, 6382), (Start: 6 @6418 has 56 MA's), (9, 6499), (10, 6526), (12, 6655), (14, 6700),

Gene: Akino08\_7 Start: 6648, Stop: 6977, Start Num: 6

Candidate Starts for Akino08\_7:

(Start: 6 @6648 has 56 MA's), (9, 6729), (10, 6756), (14, 6840),

Gene: Albedo\_7 Start: 6377, Stop: 6721, Start Num: 6

Candidate Starts for Albedo\_7:

(Start: 6 @6377 has 56 MA's), (9, 6458), (10, 6485),

Gene: Albright\_7 Start: 6389, Stop: 6730, Start Num: 6

Candidate Starts for Albright\_7:

(Start: 6 @6389 has 56 MA's), (9, 6470), (10, 6497), (14, 6581),

Gene: AnnaLie\_8 Start: 6735, Stop: 7076, Start Num: 6

Candidate Starts for AnnaLie\_8:

(Start: 6 @6735 has 56 MA's), (9, 6816), (10, 6843), (14, 6927),

Gene: Arroyo\_8 Start: 6859, Stop: 7200, Start Num: 6

Candidate Starts for Arroyo\_8:

(Start: 6 @6859 has 56 MA's), (9, 6940), (10, 6967),

Gene: AvGardian\_7 Start: 6458, Stop: 6787, Start Num: 6

Candidate Starts for AvGardian\_7:

(Start: 6 @6458 has 56 MA's), (8, 6479), (9, 6539), (10, 6566), (11, 6587), (14, 6650),

Gene: Avocadoman\_7 Start: 6447, Stop: 6788, Start Num: 6

Candidate Starts for Avocadoman\_7:

(Start: 6 @6447 has 56 MA's), (9, 6528), (10, 6555), (14, 6639),

Gene: AylexOG\_8 Start: 6743, Stop: 7072, Start Num: 6

Candidate Starts for AylexOG\_8:

(Start: 6 @6743 has 56 MA's), (9, 6824), (10, 6851),

Gene: BabyDaisy\_8 Start: 6638, Stop: 6958, Start Num: 6  
Candidate Starts for BabyDaisy\_8:  
(Start: 2 @6599 has 1 MA's), (Start: 6 @6638 has 56 MA's), (9, 6719), (10, 6746), (14, 6830),

Gene: BabyYoda\_7 Start: 6654, Stop: 6980, Start Num: 6  
Candidate Starts for BabyYoda\_7:  
(Start: 6 @6654 has 56 MA's), (9, 6735), (10, 6762), (14, 6846),

Gene: Bachaco\_7 Start: 6574, Stop: 6873, Start Num: 6  
Candidate Starts for Bachaco\_7:  
(Start: 6 @6574 has 56 MA's), (7, 6577), (13, 6739),

Gene: BelmontSKP\_8 Start: 6735, Stop: 7076, Start Num: 6  
Candidate Starts for BelmontSKP\_8:  
(Start: 6 @6735 has 56 MA's), (9, 6816), (10, 6843), (14, 6927),

Gene: Bengal\_7 Start: 6389, Stop: 6730, Start Num: 6  
Candidate Starts for Bengal\_7:  
(Start: 6 @6389 has 56 MA's), (9, 6470), (10, 6497), (14, 6581),

Gene: BubbaBear\_7 Start: 6377, Stop: 6721, Start Num: 6  
Candidate Starts for BubbaBear\_7:  
(Start: 6 @6377 has 56 MA's), (9, 6458), (10, 6485),

Gene: Burritobowl\_7 Start: 6416, Stop: 6757, Start Num: 6  
Candidate Starts for Burritobowl\_7:  
(4, 6380), (Start: 6 @6416 has 56 MA's), (9, 6497), (10, 6524), (14, 6608),

Gene: CanFranMach\_7 Start: 6416, Stop: 6745, Start Num: 6  
Candidate Starts for CanFranMach\_7:  
(Start: 6 @6416 has 56 MA's), (9, 6497), (10, 6524), (14, 6608),

Gene: Cashington\_7 Start: 6406, Stop: 6747, Start Num: 6  
Candidate Starts for Cashington\_7:  
(4, 6370), (Start: 6 @6406 has 56 MA's), (9, 6487), (10, 6514), (14, 6598),

Gene: Celaena\_7 Start: 6511, Stop: 6810, Start Num: 6  
Candidate Starts for Celaena\_7:  
(Start: 6 @6511 has 56 MA's), (7, 6514), (13, 6676),

Gene: ChiliPepper\_7 Start: 6658, Stop: 6960, Start Num: 6  
Candidate Starts for ChiliPepper\_7:  
(Start: 3 @6622 has 4 MA's), (Start: 6 @6658 has 56 MA's), (9, 6739), (10, 6766), (11, 6787), (13, 6823), (14, 6850),

Gene: CroZenni\_7 Start: 6389, Stop: 6730, Start Num: 6  
Candidate Starts for CroZenni\_7:  
(Start: 6 @6389 has 56 MA's), (9, 6470), (10, 6497), (14, 6581),

Gene: CupcakePrincess\_7 Start: 6378, Stop: 6707, Start Num: 6  
Candidate Starts for CupcakePrincess\_7:  
(Start: 6 @6378 has 56 MA's), (9, 6459), (10, 6486),

Gene: DickRichards\_7 Start: 6883, Stop: 7224, Start Num: 6  
Candidate Starts for DickRichards\_7:  
(4, 6847), (Start: 6 @6883 has 56 MA's), (9, 6964), (10, 6991), (14, 7075),

Gene: Didgeridoo\_8 Start: 6599, Stop: 6958, Start Num: 2  
Candidate Starts for Didgeridoo\_8:  
(Start: 2 @6599 has 1 MA's), (Start: 6 @6638 has 56 MA's), (9, 6719), (10, 6746), (14, 6830),

Gene: DirtyBubble\_7 Start: 6653, Stop: 6979, Start Num: 6  
Candidate Starts for DirtyBubble\_7:  
(Start: 6 @6653 has 56 MA's), (9, 6734), (10, 6761), (14, 6845),

Gene: Dismas\_7 Start: 6622, Stop: 6960, Start Num: 3  
Candidate Starts for Dismas\_7:  
(Start: 3 @6622 has 4 MA's), (Start: 6 @6658 has 56 MA's), (9, 6739), (10, 6766), (11, 6787), (13, 6823), (14, 6850),

Gene: Doobus\_7 Start: 6611, Stop: 6952, Start Num: 6  
Candidate Starts for Doobus\_7:  
(Start: 6 @6611 has 56 MA's), (9, 6692), (10, 6719), (14, 6803),

Gene: Elva\_8 Start: 6719, Stop: 7045, Start Num: 6  
Candidate Starts for Elva\_8:  
(Start: 6 @6719 has 56 MA's), (10, 6827), (13, 6884), (14, 6911),

Gene: Eula\_7 Start: 6399, Stop: 6728, Start Num: 6  
Candidate Starts for Eula\_7:  
(1, 6330), (Start: 6 @6399 has 56 MA's), (9, 6480), (10, 6507),

Gene: Finalfrontier\_8 Start: 6910, Stop: 7239, Start Num: 6  
Candidate Starts for Finalfrontier\_8:  
(Start: 6 @6910 has 56 MA's), (9, 6991), (10, 7018),

Gene: Icarian\_8 Start: 6645, Stop: 6971, Start Num: 6  
Candidate Starts for Icarian\_8:  
(Start: 6 @6645 has 56 MA's), (9, 6726), (10, 6753), (14, 6837),

Gene: IndyLu\_7 Start: 6462, Stop: 6782, Start Num: 6  
Candidate Starts for IndyLu\_7:  
(Start: 2 @6423 has 1 MA's), (Start: 6 @6462 has 56 MA's), (9, 6543), (10, 6570), (14, 6654),

Gene: Jabb\_7 Start: 6378, Stop: 6707, Start Num: 6  
Candidate Starts for Jabb\_7:  
(Start: 6 @6378 has 56 MA's), (9, 6459), (10, 6486),

Gene: Johnathan\_7 Start: 6389, Stop: 6730, Start Num: 6  
Candidate Starts for Johnathan\_7:  
(Start: 6 @6389 has 56 MA's), (9, 6470), (10, 6497), (14, 6581),

Gene: Jovita\_7 Start: 6500, Stop: 6829, Start Num: 6  
Candidate Starts for Jovita\_7:  
(Start: 6 @6500 has 56 MA's), (9, 6581), (10, 6608),

Gene: Kamdara\_7 Start: 6657, Stop: 6959, Start Num: 6  
Candidate Starts for Kamdara\_7:  
(Start: 3 @6621 has 4 MA's), (Start: 6 @6657 has 56 MA's), (9, 6738), (10, 6765), (11, 6786), (13, 6822), (14, 6849),

Gene: Kate33\_7 Start: 6461, Stop: 6781, Start Num: 6  
Candidate Starts for Kate33\_7:  
(Start: 2 @6422 has 1 MA's), (Start: 6 @6461 has 56 MA's), (9, 6542), (10, 6569), (14, 6653),

Gene: Katzastrophic\_7 Start: 6574, Stop: 6873, Start Num: 6  
Candidate Starts for Katzastrophic\_7:  
(Start: 6 @6574 has 56 MA's), (7, 6577), (13, 6739),

Gene: Kenzers\_7 Start: 6400, Stop: 6744, Start Num: 6  
Candidate Starts for Kenzers\_7:  
(Start: 6 @6400 has 56 MA's), (9, 6481), (10, 6508),

Gene: Kieran\_7 Start: 6622, Stop: 6963, Start Num: 3  
Candidate Starts for Kieran\_7:  
(Start: 3 @6622 has 4 MA's), (Start: 6 @6661 has 56 MA's), (9, 6742), (10, 6769), (11, 6790), (13, 6826), (14, 6853),

Gene: Lahqtemish\_7 Start: 6498, Stop: 6818, Start Num: 6  
Candidate Starts for Lahqtemish\_7:  
(4, 6462), (Start: 6 @6498 has 56 MA's), (9, 6579), (10, 6606), (14, 6690),

Gene: Lilo27\_7 Start: 6381, Stop: 6710, Start Num: 6  
Candidate Starts for Lilo27\_7:  
(Start: 6 @6381 has 56 MA's), (9, 6462), (10, 6489), (14, 6573),

Gene: LimaBean\_7 Start: 6389, Stop: 6730, Start Num: 6  
Candidate Starts for LimaBean\_7:  
(Start: 6 @6389 has 56 MA's), (9, 6470), (10, 6497), (14, 6581),

Gene: Loviatar\_7 Start: 6654, Stop: 6992, Start Num: 6  
Candidate Starts for Loviatar\_7:  
(Start: 6 @6654 has 56 MA's), (9, 6735), (10, 6762), (14, 6846),

Gene: Lynlen\_7 Start: 6400, Stop: 6744, Start Num: 6  
Candidate Starts for Lynlen\_7:  
(Start: 6 @6400 has 56 MA's), (9, 6481), (10, 6508),

Gene: Milomuff\_8 Start: 6775, Stop: 7116, Start Num: 6  
Candidate Starts for Milomuff\_8:  
(4, 6739), (Start: 6 @6775 has 56 MA's), (9, 6856), (10, 6883), (14, 6967),

Gene: MsUbiquitous\_7 Start: 6378, Stop: 6707, Start Num: 6  
Candidate Starts for MsUbiquitous\_7:  
(Start: 6 @6378 has 56 MA's), (9, 6459), (10, 6486),

Gene: Nicky22\_8 Start: 6849, Stop: 7178, Start Num: 6  
Candidate Starts for Nicky22\_8:  
(Start: 6 @6849 has 56 MA's), (9, 6930), (10, 6957),

Gene: PastaFagioli\_7 Start: 6470, Stop: 6808, Start Num: 6  
Candidate Starts for PastaFagioli\_7:  
(Start: 6 @6470 has 56 MA's), (9, 6551), (10, 6578), (14, 6662),

Gene: Pecas\_7 Start: 6399, Stop: 6728, Start Num: 6  
Candidate Starts for Pecas\_7:  
(1, 6330), (Start: 6 @6399 has 56 MA's), (9, 6480), (10, 6507),

Gene: PhigPhack\_7 Start: 6418, Stop: 6759, Start Num: 6  
Candidate Starts for PhigPhack\_7:  
(4, 6382), (5, 6394), (Start: 6 @6418 has 56 MA's), (9, 6499), (10, 6526), (14, 6610),

Gene: Phisb\_7 Start: 6377, Stop: 6721, Start Num: 6  
Candidate Starts for Phisb\_7:  
(Start: 6 @6377 has 56 MA's), (9, 6458), (10, 6485),

Gene: PondAmelia\_10 Start: 6655, Stop: 6981, Start Num: 6  
Candidate Starts for PondAmelia\_10:  
(Start: 6 @6655 has 56 MA's), (10, 6763), (14, 6847),

Gene: QMacho\_8 Start: 6882, Stop: 7211, Start Num: 6  
Candidate Starts for QMacho\_8:  
(1, 6813), (Start: 6 @6882 has 56 MA's), (9, 6963), (10, 6990),

Gene: Quenya\_8 Start: 6577, Stop: 6867, Start Num: 6  
Candidate Starts for Quenya\_8:  
(Start: 6 @6577 has 56 MA's), (7, 6580), (10, 6685), (13, 6742),

Gene: Rona\_7 Start: 6622, Stop: 6960, Start Num: 3  
Candidate Starts for Rona\_7:  
(Start: 3 @6622 has 4 MA's), (Start: 6 @6658 has 56 MA's), (9, 6739), (10, 6766), (11, 6787), (13, 6823), (14, 6850),

Gene: SanaSana\_8 Start: 6654, Stop: 6980, Start Num: 6  
Candidate Starts for SanaSana\_8:  
(Start: 6 @6654 has 56 MA's), (9, 6735), (10, 6762), (14, 6846),

Gene: SansAfet\_7 Start: 6400, Stop: 6741, Start Num: 6  
Candidate Starts for SansAfet\_7:  
(Start: 2 @6361 has 1 MA's), (Start: 6 @6400 has 56 MA's), (9, 6481), (10, 6508), (14, 6592),

Gene: SarBear\_7 Start: 6375, Stop: 6704, Start Num: 6  
Candidate Starts for SarBear\_7:  
(Start: 6 @6375 has 56 MA's), (9, 6456), (10, 6483),

Gene: Sharkboy\_7 Start: 6621, Stop: 6959, Start Num: 3  
Candidate Starts for Sharkboy\_7:  
(Start: 3 @6621 has 4 MA's), (Start: 6 @6657 has 56 MA's), (9, 6738), (10, 6765), (11, 6786), (13, 6822), (14, 6849),

Gene: SirBeanington\_7 Start: 6377, Stop: 6721, Start Num: 6  
Candidate Starts for SirBeanington\_7:

(Start: 6 @6377 has 56 MA's), (9, 6458), (10, 6485),

Gene: Slay\_7 Start: 6851, Stop: 7180, Start Num: 6

Candidate Starts for Slay\_7:

(Start: 6 @6851 has 56 MA's), (9, 6932), (10, 6959),

Gene: Softsoap\_7 Start: 6389, Stop: 6730, Start Num: 6

Candidate Starts for Softsoap\_7:

(Start: 6 @6389 has 56 MA's), (9, 6470), (10, 6497),

Gene: Solea\_8 Start: 6775, Stop: 7116, Start Num: 6

Candidate Starts for Solea\_8:

(4, 6739), (Start: 6 @6775 has 56 MA's), (9, 6856), (10, 6883), (14, 6967),

Gene: Stoor\_7 Start: 6651, Stop: 6977, Start Num: 6

Candidate Starts for Stoor\_7:

(Start: 6 @6651 has 56 MA's), (9, 6732), (10, 6759), (14, 6843),

Gene: Stromboli\_7 Start: 6653, Stop: 6979, Start Num: 6

Candidate Starts for Stromboli\_7:

(Start: 6 @6653 has 56 MA's), (9, 6734), (10, 6761), (14, 6845),

Gene: Swervy\_7 Start: 6375, Stop: 6704, Start Num: 6

Candidate Starts for Swervy\_7:

(Start: 6 @6375 has 56 MA's), (9, 6456), (10, 6483),

Gene: TukTuk\_7 Start: 6375, Stop: 6704, Start Num: 6

Candidate Starts for TukTuk\_7:

(Start: 6 @6375 has 56 MA's), (9, 6456), (10, 6483),

Gene: WalkingDead\_7 Start: 6641, Stop: 6967, Start Num: 6

Candidate Starts for WalkingDead\_7:

(Start: 6 @6641 has 56 MA's), (10, 6749), (14, 6833),