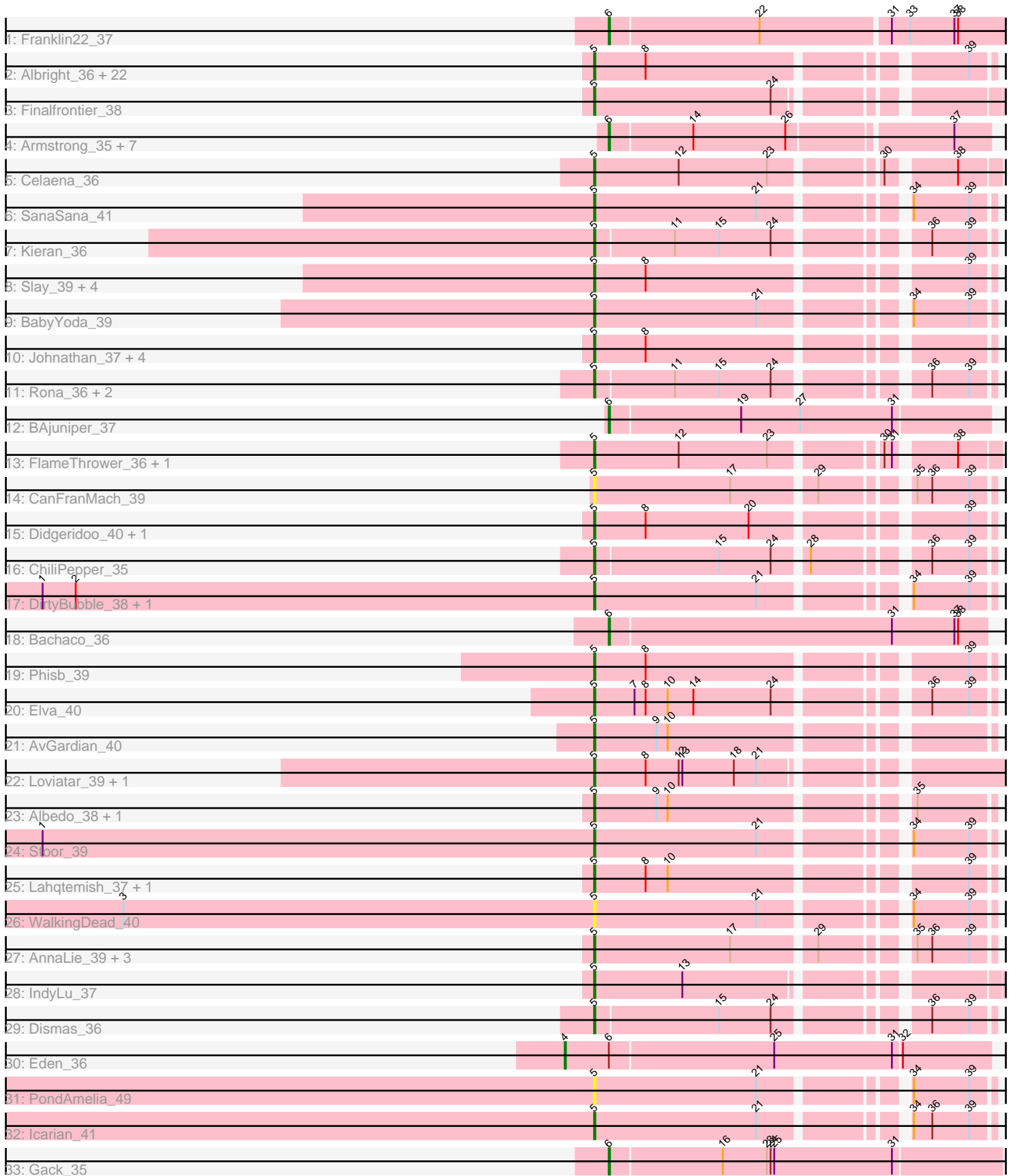


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 306391 Report

This analysis was run 06/20/26 on database version 651.

Pham number 306391 has 81 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Franklin22\_37
- Track 2 : Albright\_36, Abigail\_37, AylexOG\_40, Jovita\_39, BubbaBear\_37, Eula\_39, MsUbiquitous\_39, Bengal\_39, Arroyo\_39, SansAfet\_39, TukTuk\_39, Jabb\_39, Cashington\_36, Avocadoman\_37, Burritobowl\_38, Softsoap\_38, DickRichards\_37, Doobus\_37, CupcakePrincess\_39, QMacho\_40, CroZenni\_38, LimaBean\_37, Pecas\_38
- Track 3 : Finalfrontier\_38
- Track 4 : Armstrong\_35, Skylord\_35, Brahms\_35, Vitas\_35, Coltrane\_35, Bernstein\_35, Clayda5\_36, Rollins\_35
- Track 5 : Celaena\_36
- Track 6 : SanaSana\_41
- Track 7 : Kieran\_36
- Track 8 : Slay\_39, Nicky22\_39, Swervy\_39, SarBear\_38, Lilo27\_39
- Track 9 : BabyYoda\_39
- Track 10 : Johnathan\_37, Kenzers\_38, Lynlen\_38, Milomuff\_38, Solea\_39
- Track 11 : Rona\_36, Kamdara\_36, Sharkboy\_37
- Track 12 : BAjuniper\_37
- Track 13 : FlameThrower\_36, Katzastrophic\_37
- Track 14 : CanFranMach\_39
- Track 15 : Didgeridoo\_40, BabyDaisy\_37
- Track 16 : ChiliPepper\_35
- Track 17 : DirtyBubble\_38, Stromboli\_39
- Track 18 : Bachaco\_36
- Track 19 : Phisb\_39
- Track 20 : Elva\_40
- Track 21 : AvGardian\_40
- Track 22 : Loviatar\_39, Akino08\_39
- Track 23 : Albedo\_38, SirBeanington\_38
- Track 24 : Stoor\_39
- Track 25 : Lahqtemish\_37, PastaFagioli\_37
- Track 26 : WalkingDead\_40
- Track 27 : AnnaLie\_39, PhigPhack\_39, Kate33\_38, BelmontSKP\_39
- Track 28 : IndyLu\_37
- Track 29 : Dismas\_36
- Track 30 : Eden\_36
- Track 31 : PondAmelia\_49
- Track 32 : Icarian\_41

- Track 33 : Gack\_35

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

The start number called the most often in the published annotations is 5, it was called in 59 of the 72 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail\_37, Akino08\_39, Albedo\_38, Albright\_36, AnnaLie\_39, Arroyo\_39, AvGardian\_40, Avocadoman\_37, AylexOG\_40, BabyDaisy\_37, BabyYoda\_39, BelmontSKP\_39, Bengal\_39, BubbaBear\_37, Burritobowl\_38, CanFranMach\_39, Cashington\_36, Celaena\_36, ChiliPepper\_35, CroZenni\_38, CupcakePrincess\_39, DickRichards\_37, Didgeridoo\_40, DirtyBubble\_38, Dismas\_36, Doobus\_37, Elva\_40, Eula\_39, Finalfrontier\_38, FlameThrower\_36, Icarian\_41, IndyLu\_37, Jabb\_39, Johnathan\_37, Jovita\_39, Kamdara\_36, Kate33\_38, Katzastrophic\_37, Kenzers\_38, Kieran\_36, Lahqtemish\_37, Lilo27\_39, LimaBean\_37, Loviatar\_39, Lynlen\_38, Milomuff\_38, MsUbiquitous\_39, Nicky22\_39, PastaFagioli\_37, Pecas\_38, PhigPhack\_39, Phisb\_39, PondAmelia\_49, QMacho\_40, Rona\_36, SanaSana\_41, SansAfet\_39, SarBear\_38, Sharkboy\_37, SirBeanington\_38, Slay\_39, Softsoap\_38, Solea\_39, Stoor\_39, Stromboli\_39, Swervy\_39, TukTuk\_39, WalkingDead\_40,

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

- 

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

- Armstrong\_35, BAjuniper\_37, Bachaco\_36, Bernstein\_35, Brahms\_35, Clayda5\_36, Coltrane\_35, Eden\_36, Franklin22\_37, Gack\_35, Rollins\_35, Skylord\_35, Vitas\_35,

### **Summary by start number:**

Start 4:

- Found in 1 of 81 ( 1.2% ) of genes in pham
- Manual Annotations of this start: 1 of 72
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eden\_36 (EB),

Start 5:

- Found in 68 of 81 ( 84.0% ) of genes in pham
- Manual Annotations of this start: 59 of 72
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail\_37 (EB), Akino08\_39 (EB), Albedo\_38 (EB), Albright\_36 (EB), AnnaLie\_39 (EB), Arroyo\_39 (EB), AvGardian\_40 (EB), Avocadoman\_37 (EB), AylexOG\_40 (EB), BabyDaisy\_37 (EB), BabyYoda\_39 (EB), BelmontSKP\_39 (EB), Bengal\_39 (EB), BubbaBear\_37 (EB), Burritobowl\_38 (EB), CanFranMach\_39 (EB), Cashington\_36 (EB), Celaena\_36 (EB), ChiliPepper\_35 (EB), CroZenni\_38 (EB), CupcakePrincess\_39 (EB), DickRichards\_37 (EB), Didgeridoo\_40 (EB), DirtyBubble\_38 (EB), Dismas\_36 (EB), Doobus\_37 (EB), Elva\_40 (EB), Eula\_39 (EB), Finalfrontier\_38 (EB), FlameThrower\_36 (EB), Icarian\_41 (EB), IndyLu\_37 (EB), Jabb\_39 (EB), Johnathan\_37 (EB), Jovita\_39 (EB), Kamdara\_36 (EB), Kate33\_38 (EB), Katzastrophic\_37 (EB), Kenzers\_38 (EB),

Kieran\_36 (EB), Lahqtemish\_37 (EB), Lilo27\_39 (EB), LimaBean\_37 (EB), Loviatar\_39 (EB), Lynlen\_38 (EB), Milomuff\_38 (EB), MsUbiquitous\_39 (EB), Nicky22\_39 (EB), PastaFagioli\_37 (EB), Pecas\_38 (EB), PhigPhack\_39 (EB), Phisb\_39 (EB), PondAmelia\_49 (EB), QMacho\_40 (EB), Rona\_36 (EB), SanaSana\_41 (EB), SansAfet\_39 (EB), SarBear\_38 (EB), Sharkboy\_37 (EB), SirBeanington\_38 (EB), Slay\_39 (EB), Softsoap\_38 (EB), Solea\_39 (EB), Stoor\_39 (EB), Stromboli\_39 (EB), Swervy\_39 (EB), TukTuk\_39 (EB), WalkingDead\_40 (EB),

Start 6:

- Found in 13 of 81 ( 16.0% ) of genes in pham
- Manual Annotations of this start: 12 of 72
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Armstrong\_35 (EB), BAjuniper\_37 (EB), Bachaco\_36 (EB), Bernstein\_35 (EB), Brahms\_35 (EB), Clayda5\_36 (EB), Coltrane\_35 (EB), Franklin22\_37 (EB), Gack\_35 (EB), Rollins\_35 (EB), Skylord\_35 (EB), Vitas\_35 (EB),

### Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 4 was manually annotated 1 time for cluster EB.
- Start number 5 was manually annotated 59 times for cluster EB.
- Start number 6 was manually annotated 12 times for cluster EB.

### Gene Information:

Gene: Abigail\_37 Start: 25578, Stop: 25871, Start Num: 5

Candidate Starts for Abigail\_37:

(Start: 5 @25578 has 59 MA's), (8, 25620), (39, 25854),

Gene: Akino08\_39 Start: 28005, Stop: 28313, Start Num: 5

Candidate Starts for Akino08\_39:

(Start: 5 @28005 has 59 MA's), (8, 28047), (12, 28074), (13, 28077), (18, 28119), (21, 28137),

Gene: Albedo\_38 Start: 26128, Stop: 26421, Start Num: 5

Candidate Starts for Albedo\_38:

(Start: 5 @26128 has 59 MA's), (9, 26179), (10, 26188), (35, 26362),

Gene: Albright\_36 Start: 25280, Stop: 25573, Start Num: 5

Candidate Starts for Albright\_36:

(Start: 5 @25280 has 59 MA's), (8, 25322), (39, 25556),

Gene: AnnaLie\_39 Start: 26401, Stop: 26694, Start Num: 5

Candidate Starts for AnnaLie\_39:

(Start: 5 @26401 has 59 MA's), (17, 26512), (29, 26575), (35, 26635), (36, 26647), (39, 26677),

Gene: Armstrong\_35 Start: 23993, Stop: 24289, Start Num: 6

Candidate Starts for Armstrong\_35:

(Start: 6 @23993 has 12 MA's), (14, 24059), (26, 24134), (37, 24260),

Gene: Arroyo\_39 Start: 26439, Stop: 26732, Start Num: 5

Candidate Starts for Arroyo\_39:

(Start: 5 @26439 has 59 MA's), (8, 26481), (39, 26715),

Gene: AvGardian\_40 Start: 26572, Stop: 26865, Start Num: 5

Candidate Starts for AvGardian\_40:

(Start: 5 @26572 has 59 MA's), (9, 26623), (10, 26632),

Gene: Avocadoman\_37 Start: 25517, Stop: 25810, Start Num: 5

Candidate Starts for Avocadoman\_37:

(Start: 5 @25517 has 59 MA's), (8, 25559), (39, 25793),

Gene: AylexOG\_40 Start: 26474, Stop: 26767, Start Num: 5

Candidate Starts for AylexOG\_40:

(Start: 5 @26474 has 59 MA's), (8, 26516), (39, 26750),

Gene: BAjuniper\_37 Start: 27255, Stop: 27560, Start Num: 6

Candidate Starts for BAjuniper\_37:

(Start: 6 @27255 has 12 MA's), (19, 27360), (27, 27408), (31, 27483),

Gene: BabyDaisy\_37 Start: 26040, Stop: 26333, Start Num: 5

Candidate Starts for BabyDaisy\_37:

(Start: 5 @26040 has 59 MA's), (8, 26082), (20, 26166), (39, 26316),

Gene: BabyYoda\_39 Start: 27185, Stop: 27478, Start Num: 5

Candidate Starts for BabyYoda\_39:

(Start: 5 @27185 has 59 MA's), (21, 27317), (34, 27416), (39, 27461),

Gene: Bachaco\_36 Start: 27201, Stop: 27506, Start Num: 6

Candidate Starts for Bachaco\_36:

(Start: 6 @27201 has 12 MA's), (31, 27429), (37, 27480), (38, 27483),

Gene: BelmontSKP\_39 Start: 26401, Stop: 26694, Start Num: 5

Candidate Starts for BelmontSKP\_39:

(Start: 5 @26401 has 59 MA's), (17, 26512), (29, 26575), (35, 26635), (36, 26647), (39, 26677),

Gene: Bengal\_39 Start: 26029, Stop: 26322, Start Num: 5

Candidate Starts for Bengal\_39:

(Start: 5 @26029 has 59 MA's), (8, 26071), (39, 26305),

Gene: Bernstein\_35 Start: 24048, Stop: 24344, Start Num: 6

Candidate Starts for Bernstein\_35:

(Start: 6 @24048 has 12 MA's), (14, 24114), (26, 24189), (37, 24315),

Gene: Brahms\_35 Start: 23995, Stop: 24291, Start Num: 6

Candidate Starts for Brahms\_35:

(Start: 6 @23995 has 12 MA's), (14, 24061), (26, 24136), (37, 24262),

Gene: BubbaBear\_37 Start: 25973, Stop: 26266, Start Num: 5

Candidate Starts for BubbaBear\_37:

(Start: 5 @25973 has 59 MA's), (8, 26015), (39, 26249),

Gene: Burritobowl\_38 Start: 25974, Stop: 26267, Start Num: 5

Candidate Starts for Burritobowl\_38:

(Start: 5 @25974 has 59 MA's), (8, 26016), (39, 26250),

Gene: CanFranMach\_39 Start: 26059, Stop: 26352, Start Num: 5

Candidate Starts for CanFranMach\_39:

(Start: 5 @26059 has 59 MA's), (17, 26170), (29, 26233), (35, 26293), (36, 26305), (39, 26335),

Gene: Cashington\_36 Start: 25320, Stop: 25613, Start Num: 5

Candidate Starts for Cashington\_36:

(Start: 5 @25320 has 59 MA's), (8, 25362), (39, 25596),

Gene: Celaena\_36 Start: 26951, Stop: 27250, Start Num: 5

Candidate Starts for Celaena\_36:

(Start: 5 @26951 has 59 MA's), (12, 27020), (23, 27092), (30, 27170), (38, 27218),

Gene: ChiliPepper\_35 Start: 26408, Stop: 26698, Start Num: 5

Candidate Starts for ChiliPepper\_35:

(Start: 5 @26408 has 59 MA's), (15, 26507), (24, 26549), (28, 26573), (36, 26651), (39, 26681),

Gene: Clayda5\_36 Start: 23982, Stop: 24278, Start Num: 6

Candidate Starts for Clayda5\_36:

(Start: 6 @23982 has 12 MA's), (14, 24048), (26, 24123), (37, 24249),

Gene: Coltrane\_35 Start: 23995, Stop: 24291, Start Num: 6

Candidate Starts for Coltrane\_35:

(Start: 6 @23995 has 12 MA's), (14, 24061), (26, 24136), (37, 24262),

Gene: CroZenni\_38 Start: 25864, Stop: 26157, Start Num: 5

Candidate Starts for CroZenni\_38:

(Start: 5 @25864 has 59 MA's), (8, 25906), (39, 26140),

Gene: CupcakePrincess\_39 Start: 26162, Stop: 26455, Start Num: 5

Candidate Starts for CupcakePrincess\_39:

(Start: 5 @26162 has 59 MA's), (8, 26204), (39, 26438),

Gene: DickRichards\_37 Start: 26303, Stop: 26596, Start Num: 5

Candidate Starts for DickRichards\_37:

(Start: 5 @26303 has 59 MA's), (8, 26345), (39, 26579),

Gene: Didgeridoo\_40 Start: 26449, Stop: 26742, Start Num: 5

Candidate Starts for Didgeridoo\_40:

(Start: 5 @26449 has 59 MA's), (8, 26491), (20, 26575), (39, 26725),

Gene: DirtyBubble\_38 Start: 26833, Stop: 27126, Start Num: 5

Candidate Starts for DirtyBubble\_38:

(1, 26383), (2, 26410), (Start: 5 @26833 has 59 MA's), (21, 26965), (34, 27064), (39, 27109),

Gene: Dismas\_36 Start: 26579, Stop: 26869, Start Num: 5

Candidate Starts for Dismas\_36:

(Start: 5 @26579 has 59 MA's), (15, 26678), (24, 26720), (36, 26822), (39, 26852),

Gene: Doobus\_37 Start: 25684, Stop: 25977, Start Num: 5

Candidate Starts for Doobus\_37:

(Start: 5 @25684 has 59 MA's), (8, 25726), (39, 25960),

Gene: Eden\_36 Start: 24763, Stop: 25104, Start Num: 4

Candidate Starts for Eden\_36:

(Start: 4 @24763 has 1 MA's), (Start: 6 @24799 has 12 MA's), (25, 24931), (31, 25027), (32, 25033),

Gene: Elva\_40 Start: 26895, Stop: 27188, Start Num: 5

Candidate Starts for Elva\_40:

(Start: 5 @26895 has 59 MA's), (7, 26928), (8, 26937), (10, 26955), (14, 26976), (24, 27039), (36, 27141), (39, 27171),

Gene: Eula\_39 Start: 26075, Stop: 26368, Start Num: 5

Candidate Starts for Eula\_39:

(Start: 5 @26075 has 59 MA's), (8, 26117), (39, 26351),

Gene: Finalfrontier\_38 Start: 26687, Stop: 26986, Start Num: 5

Candidate Starts for Finalfrontier\_38:

(Start: 5 @26687 has 59 MA's), (24, 26831),

Gene: FlameThrower\_36 Start: 26401, Stop: 26700, Start Num: 5

Candidate Starts for FlameThrower\_36:

(Start: 5 @26401 has 59 MA's), (12, 26470), (23, 26542), (30, 26620), (31, 26626), (38, 26668),

Gene: Franklin22\_37 Start: 24775, Stop: 25089, Start Num: 6

Candidate Starts for Franklin22\_37:

(Start: 6 @24775 has 12 MA's), (22, 24895), (31, 24997), (33, 25012), (37, 25048), (38, 25051),

Gene: Gack\_35 Start: 24526, Stop: 24840, Start Num: 6

Candidate Starts for Gack\_35:

(Start: 6 @24526 has 12 MA's), (16, 24616), (23, 24652), (24, 24655), (25, 24658), (31, 24754),

Gene: Icarian\_41 Start: 27468, Stop: 27761, Start Num: 5

Candidate Starts for Icarian\_41:

(Start: 5 @27468 has 59 MA's), (21, 27600), (34, 27699), (36, 27714), (39, 27744),

Gene: IndyLu\_37 Start: 26001, Stop: 26300, Start Num: 5

Candidate Starts for IndyLu\_37:

(Start: 5 @26001 has 59 MA's), (13, 26073),

Gene: Jabb\_39 Start: 26162, Stop: 26455, Start Num: 5

Candidate Starts for Jabb\_39:

(Start: 5 @26162 has 59 MA's), (8, 26204), (39, 26438),

Gene: Johnathan\_37 Start: 25407, Stop: 25700, Start Num: 5

Candidate Starts for Johnathan\_37:

(Start: 5 @25407 has 59 MA's), (8, 25449),

Gene: Jovita\_39 Start: 26177, Stop: 26470, Start Num: 5

Candidate Starts for Jovita\_39:

(Start: 5 @26177 has 59 MA's), (8, 26219), (39, 26453),

Gene: Kamdara\_36 Start: 26584, Stop: 26874, Start Num: 5

Candidate Starts for Kamdara\_36:

(Start: 5 @26584 has 59 MA's), (11, 26647), (15, 26683), (24, 26725), (36, 26827), (39, 26857),

Gene: Kate33\_38 Start: 25773, Stop: 26066, Start Num: 5

Candidate Starts for Kate33\_38:

(Start: 5 @25773 has 59 MA's), (17, 25884), (29, 25947), (35, 26007), (36, 26019), (39, 26049),

Gene: Katzastrophic\_37 Start: 26530, Stop: 26829, Start Num: 5

Candidate Starts for Katzastrophic\_37:

(Start: 5 @26530 has 59 MA's), (12, 26599), (23, 26671), (30, 26749), (31, 26755), (38, 26797),

Gene: Kenzers\_38 Start: 26000, Stop: 26293, Start Num: 5

Candidate Starts for Kenzers\_38:

(Start: 5 @26000 has 59 MA's), (8, 26042),

Gene: Kieran\_36 Start: 26587, Stop: 26877, Start Num: 5

Candidate Starts for Kieran\_36:

(Start: 5 @26587 has 59 MA's), (11, 26650), (15, 26686), (24, 26728), (36, 26830), (39, 26860),

Gene: Lahqtemish\_37 Start: 26046, Stop: 26339, Start Num: 5

Candidate Starts for Lahqtemish\_37:

(Start: 5 @26046 has 59 MA's), (8, 26088), (10, 26106), (39, 26322),

Gene: Lilo27\_39 Start: 25985, Stop: 26278, Start Num: 5

Candidate Starts for Lilo27\_39:

(Start: 5 @25985 has 59 MA's), (8, 26027), (39, 26261),

Gene: LimaBean\_37 Start: 25456, Stop: 25749, Start Num: 5

Candidate Starts for LimaBean\_37:

(Start: 5 @25456 has 59 MA's), (8, 25498), (39, 25732),

Gene: Loviatar\_39 Start: 28020, Stop: 28328, Start Num: 5

Candidate Starts for Loviatar\_39:

(Start: 5 @28020 has 59 MA's), (8, 28062), (12, 28089), (13, 28092), (18, 28134), (21, 28152),

Gene: Lynlen\_38 Start: 26000, Stop: 26293, Start Num: 5

Candidate Starts for Lynlen\_38:

(Start: 5 @26000 has 59 MA's), (8, 26042),

Gene: Milomuff\_38 Start: 25877, Stop: 26170, Start Num: 5

Candidate Starts for Milomuff\_38:

(Start: 5 @25877 has 59 MA's), (8, 25919),

Gene: MsUbiquitous\_39 Start: 26162, Stop: 26455, Start Num: 5

Candidate Starts for MsUbiquitous\_39:

(Start: 5 @26162 has 59 MA's), (8, 26204), (39, 26438),

Gene: Nicky22\_39 Start: 26539, Stop: 26832, Start Num: 5

Candidate Starts for Nicky22\_39:

(Start: 5 @26539 has 59 MA's), (8, 26581), (39, 26815),

Gene: PastaFagioli\_37 Start: 26030, Stop: 26323, Start Num: 5

Candidate Starts for PastaFagioli\_37:

(Start: 5 @26030 has 59 MA's), (8, 26072), (10, 26090), (39, 26306),

Gene: Pecas\_38 Start: 26074, Stop: 26367, Start Num: 5

Candidate Starts for Pecas\_38:

(Start: 5 @26074 has 59 MA's), (8, 26116), (39, 26350),

Gene: PhigPhack\_39 Start: 25900, Stop: 26193, Start Num: 5

Candidate Starts for PhigPhack\_39:

(Start: 5 @25900 has 59 MA's), (17, 26011), (29, 26074), (35, 26134), (36, 26146), (39, 26176),

Gene: Phisb\_39 Start: 26133, Stop: 26426, Start Num: 5

Candidate Starts for Phisb\_39:

(Start: 5 @26133 has 59 MA's), (8, 26175), (39, 26409),

Gene: PondAmelia\_49 Start: 27000, Stop: 27293, Start Num: 5

Candidate Starts for PondAmelia\_49:

(Start: 5 @27000 has 59 MA's), (21, 27132), (34, 27231), (39, 27276),

Gene: QMacho\_40 Start: 26557, Stop: 26850, Start Num: 5

Candidate Starts for QMacho\_40:

(Start: 5 @26557 has 59 MA's), (8, 26599), (39, 26833),

Gene: Rollins\_35 Start: 24048, Stop: 24344, Start Num: 6

Candidate Starts for Rollins\_35:

(Start: 6 @24048 has 12 MA's), (14, 24114), (26, 24189), (37, 24315),

Gene: Rona\_36 Start: 26570, Stop: 26860, Start Num: 5

Candidate Starts for Rona\_36:

(Start: 5 @26570 has 59 MA's), (11, 26633), (15, 26669), (24, 26711), (36, 26813), (39, 26843),

Gene: SanaSana\_41 Start: 27670, Stop: 27963, Start Num: 5

Candidate Starts for SanaSana\_41:

(Start: 5 @27670 has 59 MA's), (21, 27802), (34, 27901), (39, 27946),

Gene: SansAfet\_39 Start: 25987, Stop: 26280, Start Num: 5

Candidate Starts for SansAfet\_39:

(Start: 5 @25987 has 59 MA's), (8, 26029), (39, 26263),

Gene: SarBear\_38 Start: 25854, Stop: 26147, Start Num: 5

Candidate Starts for SarBear\_38:

(Start: 5 @25854 has 59 MA's), (8, 25896), (39, 26130),

Gene: Sharkboy\_37 Start: 26669, Stop: 26959, Start Num: 5

Candidate Starts for Sharkboy\_37:

(Start: 5 @26669 has 59 MA's), (11, 26732), (15, 26768), (24, 26810), (36, 26912), (39, 26942),

Gene: SirBeanington\_38 Start: 26175, Stop: 26468, Start Num: 5

Candidate Starts for SirBeanington\_38:

(Start: 5 @26175 has 59 MA's), (9, 26226), (10, 26235), (35, 26409),

Gene: Skylord\_35 Start: 23979, Stop: 24275, Start Num: 6

Candidate Starts for Skylord\_35:

(Start: 6 @23979 has 12 MA's), (14, 24045), (26, 24120), (37, 24246),

Gene: Slay\_39 Start: 26535, Stop: 26828, Start Num: 5  
Candidate Starts for Slay\_39:  
(Start: 5 @26535 has 59 MA's), (8, 26577), (39, 26811),

Gene: Softsoap\_38 Start: 25898, Stop: 26191, Start Num: 5  
Candidate Starts for Softsoap\_38:  
(Start: 5 @25898 has 59 MA's), (8, 25940), (39, 26174),

Gene: Solea\_39 Start: 25877, Stop: 26170, Start Num: 5  
Candidate Starts for Solea\_39:  
(Start: 5 @25877 has 59 MA's), (8, 25919),

Gene: Stoor\_39 Start: 27339, Stop: 27632, Start Num: 5  
Candidate Starts for Stoor\_39:  
(1, 26889), (Start: 5 @27339 has 59 MA's), (21, 27471), (34, 27570), (39, 27615),

Gene: Stromboli\_39 Start: 27203, Stop: 27496, Start Num: 5  
Candidate Starts for Stromboli\_39:  
(1, 26753), (2, 26780), (Start: 5 @27203 has 59 MA's), (21, 27335), (34, 27434), (39, 27479),

Gene: Swervy\_39 Start: 26054, Stop: 26347, Start Num: 5  
Candidate Starts for Swervy\_39:  
(Start: 5 @26054 has 59 MA's), (8, 26096), (39, 26330),

Gene: TukTuk\_39 Start: 26125, Stop: 26418, Start Num: 5  
Candidate Starts for TukTuk\_39:  
(Start: 5 @26125 has 59 MA's), (8, 26167), (39, 26401),

Gene: Vitas\_35 Start: 23988, Stop: 24284, Start Num: 6  
Candidate Starts for Vitas\_35:  
(Start: 6 @23988 has 12 MA's), (14, 24054), (26, 24129), (37, 24255),

Gene: WalkingDead\_40 Start: 27594, Stop: 27887, Start Num: 5  
Candidate Starts for WalkingDead\_40:  
(3, 27210), (Start: 5 @27594 has 59 MA's), (21, 27726), (34, 27825), (39, 27870),