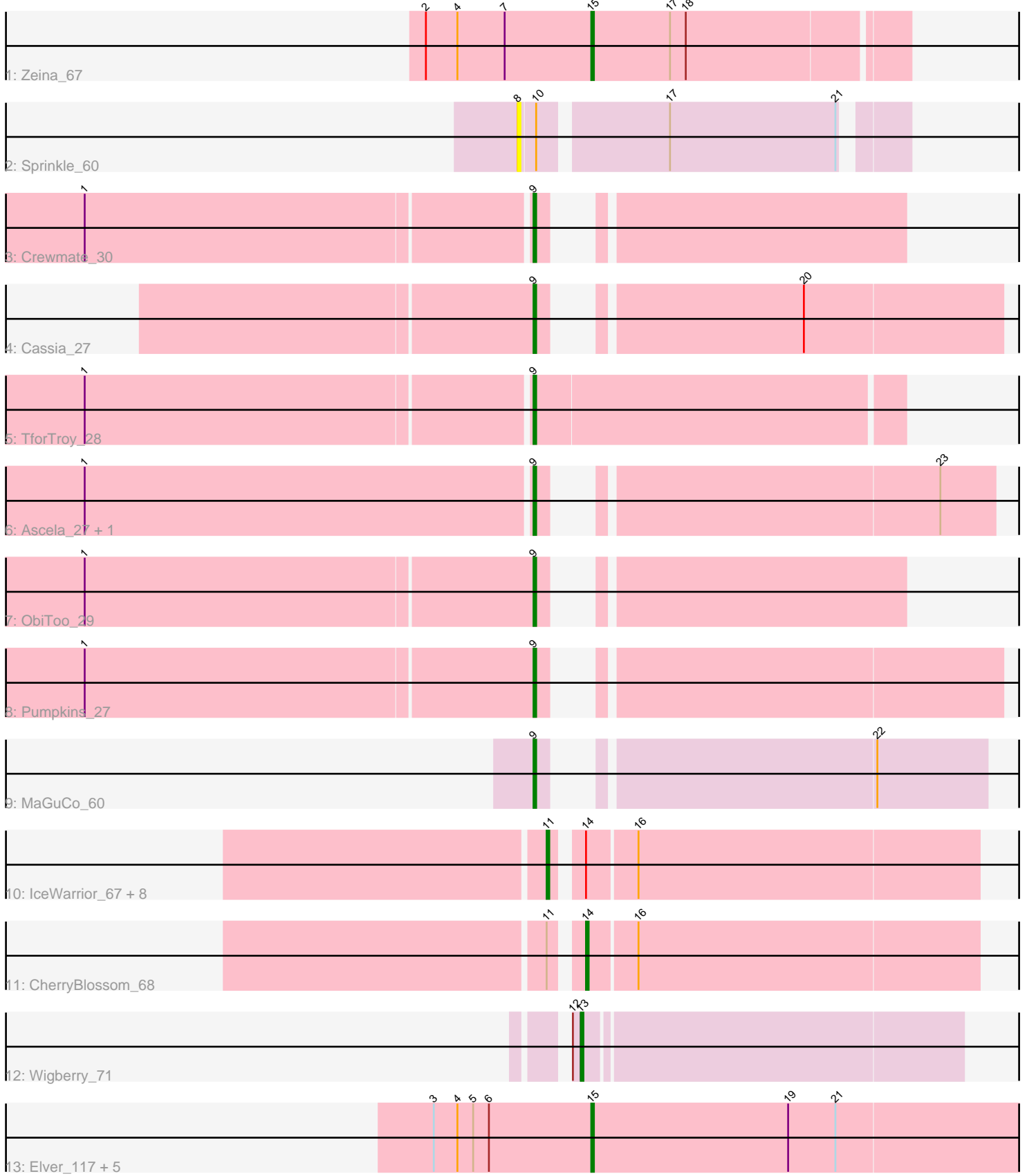


Pham 305242



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 305242 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305242 has 27 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Zeina\_67
- Track 2 : Sprinkle\_60
- Track 3 : Crewmate\_30
- Track 4 : Cassia\_27
- Track 5 : TforTroy\_28
- Track 6 : Ascela\_27, Iter\_27
- Track 7 : ObiToo\_29
- Track 8 : Pumpkins\_27
- Track 9 : MaGuCo\_60
- Track 10 : IceWarrior\_67, FidgetOrca\_70, Namu\_69, Hoshi\_69, TonyStarch\_67, Meibysrarus\_66, Jaylociraptor\_68, Indigenous\_70, Maya\_68
- Track 11 : CherryBlossom\_68
- Track 12 : Wigberry\_71
- Track 13 : Elver\_117, Paella\_117, Kureo\_115, Gandionco\_114, Marianna39\_115, JeNeSaisPas\_112

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

The start number called the most often in the published annotations is 11, it was called in 9 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- FidgetOrca\_70, Hoshi\_69, IceWarrior\_67, Indigenous\_70, Jaylociraptor\_68, Maya\_68, Meibysrarus\_66, Namu\_69, TonyStarch\_67,

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

- CherryBlossom\_68,

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

- Ascela\_27, Cassia\_27, Crewmate\_30, Elver\_117, Gandionco\_114, Iter\_27, JeNeSaisPas\_112, Kureo\_115, MaGuCo\_60, Marianna39\_115, ObiToo\_29, Paella\_117, Pumpkins\_27, Sprinkle\_60, TforTroy\_28, Wigberry\_71, Zeina\_67,

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

Start 8:

- Found in 1 of 27 ( 3.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sprinkle\_60 (AW),

Start 9:

- Found in 8 of 27 ( 29.6% ) of genes in pham
- Manual Annotations of this start: 8 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ascela\_27 (AZ1), Cassia\_27 (AZ1), Crewmate\_30 (AZ1), Iter\_27 (AZ1), MaGuCo\_60 (AZ2), ObiToo\_29 (AZ1), Pumpkins\_27 (AZ1), TforTroy\_28 (AZ1),

Start 11:

- Found in 10 of 27 ( 37.0% ) of genes in pham
- Manual Annotations of this start: 9 of 22
- Called 90.0% of time when present
- Phage (with cluster) where this start called: FidgetOrca\_70 (BI1), Hoshi\_69 (BI1), IceWarrior\_67 (BI1), Indigenous\_70 (BI1), Jaylociraptor\_68 (BI1), Maya\_68 (BI1), Meibysrarus\_66 (BI1), Namu\_69 (BI1), TonyStarch\_67 (BI1),

Start 13:

- Found in 1 of 27 ( 3.7% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wigberry\_71 (BI5),

Start 14:

- Found in 10 of 27 ( 37.0% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 10.0% of time when present
- Phage (with cluster) where this start called: CherryBlossom\_68 (BI1),

Start 15:

- Found in 7 of 27 ( 25.9% ) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver\_117 (FK), Gandionco\_114 (FK), JeNeSaisPas\_112 (FK), Kureo\_115 (FK), Marianna39\_115 (FK), Paella\_117 (FK), Zeina\_67 (AU6),

**Summary by clusters:**

There are 7 clusters represented in this pham: BI5, AW, AU6, AZ1, AZ2, FK, BI1,

Info for manual annotations of cluster AU6:

- Start number 15 was manually annotated 1 time for cluster AU6.

Info for manual annotations of cluster AZ1:

- Start number 9 was manually annotated 7 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 9 was manually annotated 1 time for cluster AZ2.

Info for manual annotations of cluster BI1:

- Start number 11 was manually annotated 9 times for cluster BI1.
- Start number 14 was manually annotated 1 time for cluster BI1.

Info for manual annotations of cluster BI5:

- Start number 13 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster FK:

- Start number 15 was manually annotated 2 times for cluster FK.

### ***Gene Information:***

Gene: Ascela\_27 Start: 22290, Stop: 22442, Start Num: 9

Candidate Starts for Ascela\_27:

(1, 22122), (Start: 9 @22290 has 8 MA's), (23, 22422),

Gene: Cassia\_27 Start: 22739, Stop: 22894, Start Num: 9

Candidate Starts for Cassia\_27:

(Start: 9 @22739 has 8 MA's), (20, 22820),

Gene: CherryBlossom\_68 Start: 43842, Stop: 43988, Start Num: 14

Candidate Starts for CherryBlossom\_68:

(Start: 11 @43833 has 9 MA's), (Start: 14 @43842 has 1 MA's), (16, 43860),

Gene: Crewmate\_30 Start: 23033, Stop: 23152, Start Num: 9

Candidate Starts for Crewmate\_30:

(1, 22868), (Start: 9 @23033 has 8 MA's),

Gene: Elver\_117 Start: 65001, Stop: 65186, Start Num: 15

Candidate Starts for Elver\_117:

(3, 64941), (4, 64950), (5, 64956), (6, 64962), (Start: 15 @65001 has 3 MA's), (19, 65076), (21, 65094),

Gene: FidgetOrca\_70 Start: 44369, Stop: 44524, Start Num: 11

Candidate Starts for FidgetOrca\_70:

(Start: 11 @44369 has 9 MA's), (Start: 14 @44378 has 1 MA's), (16, 44396),

Gene: Gandionco\_114 Start: 63813, Stop: 63998, Start Num: 15

Candidate Starts for Gandionco\_114:

(3, 63753), (4, 63762), (5, 63768), (6, 63774), (Start: 15 @63813 has 3 MA's), (19, 63888), (21, 63906),

Gene: Hoshi\_69 Start: 43976, Stop: 44131, Start Num: 11

Candidate Starts for Hoshi\_69:

(Start: 11 @43976 has 9 MA's), (Start: 14 @43985 has 1 MA's), (16, 44003),

Gene: IceWarrior\_67 Start: 43652, Stop: 43807, Start Num: 11

Candidate Starts for IceWarrior\_67:

(Start: 11 @43652 has 9 MA's), (Start: 14 @43661 has 1 MA's), (16, 43679),

Gene: Indigenous\_70 Start: 44373, Stop: 44528, Start Num: 11  
Candidate Starts for Indigenous\_70:  
(Start: 11 @44373 has 9 MA's), (Start: 14 @44382 has 1 MA's), (16, 44400),

Gene: Iter\_27 Start: 22290, Stop: 22442, Start Num: 9  
Candidate Starts for Iter\_27:  
(1, 22122), (Start: 9 @22290 has 8 MA's), (23, 22422),

Gene: Jaylociraptor\_68 Start: 43969, Stop: 44124, Start Num: 11  
Candidate Starts for Jaylociraptor\_68:  
(Start: 11 @43969 has 9 MA's), (Start: 14 @43978 has 1 MA's), (16, 43996),

Gene: JeNeSaisPas\_112 Start: 64419, Stop: 64604, Start Num: 15  
Candidate Starts for JeNeSaisPas\_112:  
(3, 64359), (4, 64368), (5, 64374), (6, 64380), (Start: 15 @64419 has 3 MA's), (19, 64494), (21, 64512),

Gene: Kureo\_115 Start: 64009, Stop: 64194, Start Num: 15  
Candidate Starts for Kureo\_115:  
(3, 63949), (4, 63958), (5, 63964), (6, 63970), (Start: 15 @64009 has 3 MA's), (19, 64084), (21, 64102),

Gene: MaGuCo\_60 Start: 42542, Stop: 42691, Start Num: 9  
Candidate Starts for MaGuCo\_60:  
(Start: 9 @42542 has 8 MA's), (22, 42650),

Gene: Marianna39\_115 Start: 64424, Stop: 64609, Start Num: 15  
Candidate Starts for Marianna39\_115:  
(3, 64364), (4, 64373), (5, 64379), (6, 64385), (Start: 15 @64424 has 3 MA's), (19, 64499), (21, 64517),

Gene: Maya\_68 Start: 43983, Stop: 44138, Start Num: 11  
Candidate Starts for Maya\_68:  
(Start: 11 @43983 has 9 MA's), (Start: 14 @43992 has 1 MA's), (16, 44010),

Gene: Meibysrarus\_66 Start: 43346, Stop: 43501, Start Num: 11  
Candidate Starts for Meibysrarus\_66:  
(Start: 11 @43346 has 9 MA's), (Start: 14 @43355 has 1 MA's), (16, 43373),

Gene: Namo\_69 Start: 44320, Stop: 44475, Start Num: 11  
Candidate Starts for Namo\_69:  
(Start: 11 @44320 has 9 MA's), (Start: 14 @44329 has 1 MA's), (16, 44347),

Gene: ObiToo\_29 Start: 22773, Stop: 22892, Start Num: 9  
Candidate Starts for ObiToo\_29:  
(1, 22605), (Start: 9 @22773 has 8 MA's),

Gene: Paella\_117 Start: 65589, Stop: 65774, Start Num: 15  
Candidate Starts for Paella\_117:  
(3, 65529), (4, 65538), (5, 65544), (6, 65550), (Start: 15 @65589 has 3 MA's), (19, 65664), (21, 65682),

Gene: Pumpkins\_27 Start: 23159, Stop: 23314, Start Num: 9  
Candidate Starts for Pumpkins\_27:  
(1, 22991), (Start: 9 @23159 has 8 MA's),

Gene: Sprinkle\_60 Start: 41394, Stop: 41528, Start Num: 8

Candidate Starts for Sprinkle\_60:

(8, 41394), (10, 41400), (17, 41445), (21, 41508),

Gene: TforTroy\_28 Start: 23051, Stop: 23188, Start Num: 9

Candidate Starts for TforTroy\_28:

(1, 22886), (Start: 9 @23051 has 8 MA's),

Gene: TonyStarch\_67 Start: 43718, Stop: 43873, Start Num: 11

Candidate Starts for TonyStarch\_67:

(Start: 11 @43718 has 9 MA's), (Start: 14 @43727 has 1 MA's), (16, 43745),

Gene: Wigberry\_71 Start: 44498, Stop: 44638, Start Num: 13

Candidate Starts for Wigberry\_71:

(12, 44495), (Start: 13 @44498 has 1 MA's),

Gene: Zeina\_67 Start: 42828, Stop: 42944, Start Num: 15

Candidate Starts for Zeina\_67:

(2, 42765), (4, 42777), (7, 42795), (Start: 15 @42828 has 3 MA's), (17, 42858), (18, 42864),