



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 297011 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297011 has 18 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Bloom\_329, FloraSnap32\_318, Bloom\_42, GoldenEssence\_22, GoldenEssence\_303, Patbob\_321, FrostedClock\_41, FloraSnap32\_33, Patbob\_35, FrostedClock\_326
- Track 2 : Phrampa\_313, Phrampa\_29
- Track 3 : Racecar\_39, Mimi\_38, Mimi\_323, Racecar\_328, Talia1610\_38, Talia1610\_324

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

The start number called the most often in the published annotations is 1, it was called in 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bloom\_329, Bloom\_42, FloraSnap32\_318, FloraSnap32\_33, FrostedClock\_326, FrostedClock\_41, GoldenEssence\_22, GoldenEssence\_303, Mimi\_323, Mimi\_38, Patbob\_321, Patbob\_35, Phrampa\_29, Phrampa\_313, Racecar\_328, Racecar\_39, Talia1610\_324, Talia1610\_38,

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 1:

- Found in 18 of 18 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom\_329 (FC), Bloom\_42 (FC), FloraSnap32\_318 (FC), FloraSnap32\_33 (FC), FrostedClock\_326 (FC), FrostedClock\_41 (FC), GoldenEssence\_22 (FC), GoldenEssence\_303 (FC), Mimi\_323 (FC), Mimi\_38 (FC), Patbob\_321 (FC), Patbob\_35 (FC), Phrampa\_29 (FC),

Phrampa\_313 (FC), Racecar\_328 (FC), Racecar\_39 (FC), Talia1610\_324 (FC), Talia1610\_38 (FC),

### **Summary by clusters:**

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

•Start number 1 was manually annotated 12 times for cluster FC.

### **Gene Information:**

Gene: Bloom\_329 Start: 190797, Stop: 190988, Start Num: 1

Candidate Starts for Bloom\_329:

(Start: 1 @190797 has 12 MA's), (2, 190893), (3, 190974),

Gene: Bloom\_42 Start: 17322, Stop: 17513, Start Num: 1

Candidate Starts for Bloom\_42:

(Start: 1 @17322 has 12 MA's), (2, 17418), (3, 17499),

Gene: FloraSnap32\_318 Start: 189011, Stop: 189202, Start Num: 1

Candidate Starts for FloraSnap32\_318:

(Start: 1 @189011 has 12 MA's), (2, 189107), (3, 189188),

Gene: FloraSnap32\_33 Start: 14873, Stop: 15064, Start Num: 1

Candidate Starts for FloraSnap32\_33:

(Start: 1 @14873 has 12 MA's), (2, 14969), (3, 15050),

Gene: FrostedClock\_41 Start: 16595, Stop: 16786, Start Num: 1

Candidate Starts for FrostedClock\_41:

(Start: 1 @16595 has 12 MA's), (2, 16691), (3, 16772),

Gene: FrostedClock\_326 Start: 190395, Stop: 190586, Start Num: 1

Candidate Starts for FrostedClock\_326:

(Start: 1 @190395 has 12 MA's), (2, 190491), (3, 190572),

Gene: GoldenEssence\_22 Start: 10241, Stop: 10432, Start Num: 1

Candidate Starts for GoldenEssence\_22:

(Start: 1 @10241 has 12 MA's), (2, 10337), (3, 10418),

Gene: GoldenEssence\_303 Start: 180794, Stop: 180985, Start Num: 1

Candidate Starts for GoldenEssence\_303:

(Start: 1 @180794 has 12 MA's), (2, 180890), (3, 180971),

Gene: Mimi\_38 Start: 16490, Stop: 16681, Start Num: 1

Candidate Starts for Mimi\_38:

(Start: 1 @16490 has 12 MA's), (2, 16586),

Gene: Mimi\_323 Start: 189150, Stop: 189341, Start Num: 1

Candidate Starts for Mimi\_323:

(Start: 1 @189150 has 12 MA's), (2, 189246),

Gene: Patbob\_321 Start: 191517, Stop: 191708, Start Num: 1  
Candidate Starts for Patbob\_321:  
(Start: 1 @191517 has 12 MA's), (2, 191613), (3, 191694),

Gene: Patbob\_35 Start: 16058, Stop: 16249, Start Num: 1  
Candidate Starts for Patbob\_35:  
(Start: 1 @16058 has 12 MA's), (2, 16154), (3, 16235),

Gene: Phrampa\_313 Start: 189701, Stop: 189892, Start Num: 1  
Candidate Starts for Phrampa\_313:  
(Start: 1 @189701 has 12 MA's), (3, 189878),

Gene: Phrampa\_29 Start: 13330, Stop: 13521, Start Num: 1  
Candidate Starts for Phrampa\_29:  
(Start: 1 @13330 has 12 MA's), (3, 13507),

Gene: Racecar\_39 Start: 17090, Stop: 17281, Start Num: 1  
Candidate Starts for Racecar\_39:  
(Start: 1 @17090 has 12 MA's), (2, 17186),

Gene: Racecar\_328 Start: 190799, Stop: 190990, Start Num: 1  
Candidate Starts for Racecar\_328:  
(Start: 1 @190799 has 12 MA's), (2, 190895),

Gene: Talia1610\_38 Start: 16508, Stop: 16699, Start Num: 1  
Candidate Starts for Talia1610\_38:  
(Start: 1 @16508 has 12 MA's), (2, 16604),

Gene: Talia1610\_324 Start: 190980, Stop: 191171, Start Num: 1  
Candidate Starts for Talia1610\_324:  
(Start: 1 @190980 has 12 MA's), (2, 191076),