



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 297092 Report

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

Pham number 297092 has 13 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Bible12\_75, Pineda\_74
- Track 2 : Melons\_73
- Track 3 : OtsoOtso\_72, Coral\_72, PhirstandPhine\_78, Cote\_75, Colusalem\_71, Amelia\_71, Daob\_71, Kepler\_75, Polka\_71
- Track 4 : Lunar\_73

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

The start number called the most often in the published annotations is 3, it was called in 8 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amelia\_71, Colusalem\_71, Coral\_72, Cote\_75, Daob\_71, Kepler\_75, OtsoOtso\_72, PhirstandPhine\_78, Polka\_71,

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

- Bible12\_75, Pineda\_74,

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

- Lunar\_73, Melons\_73,

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

Start 1:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Melons\_73 (AS2),

Start 2:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lunar\_73 (AS2),

Start 3:

- Found in 11 of 13 ( 84.6% ) of genes in pham
- Manual Annotations of this start: 8 of 10
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Amelia\_71 (AS2), Colusalem\_71 (AS2), Coral\_72 (AS2), Cote\_75 (AS2), Daob\_71 (AS2), Kepler\_75 (AS2), OtsoOtso\_72 (AS2), PhirstandPhine\_78 (AS2), Polka\_71 (AS2),

Start 4:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Bibble12\_75 (AS2), Pineda\_74 (AS2),

**Summary by clusters:**

There is one cluster represented in this pham: AS2

Info for manual annotations of cluster AS2:

- Start number 1 was manually annotated 1 time for cluster AS2.
- Start number 2 was manually annotated 1 time for cluster AS2.
- Start number 3 was manually annotated 8 times for cluster AS2.

**Gene Information:**

Gene: Amelia\_71 Start: 37701, Stop: 38054, Start Num: 3

Candidate Starts for Amelia\_71:

(Start: 3 @37701 has 8 MA's), (4, 37767),

Gene: Bibble12\_75 Start: 38337, Stop: 38624, Start Num: 4

Candidate Starts for Bibble12\_75:

(Start: 3 @38274 has 8 MA's), (4, 38337),

Gene: Colusalem\_71 Start: 37678, Stop: 38028, Start Num: 3

Candidate Starts for Colusalem\_71:

(Start: 3 @37678 has 8 MA's), (4, 37741),

Gene: Coral\_72 Start: 37893, Stop: 38243, Start Num: 3

Candidate Starts for Coral\_72:

(Start: 3 @37893 has 8 MA's), (4, 37956),

Gene: Cote\_75 Start: 38617, Stop: 38970, Start Num: 3

Candidate Starts for Cote\_75:

(Start: 3 @38617 has 8 MA's), (4, 38683),

Gene: Daob\_71 Start: 37543, Stop: 37893, Start Num: 3

Candidate Starts for Daob\_71:

(Start: 3 @37543 has 8 MA's), (4, 37606),

Gene: Kepler\_75 Start: 38025, Stop: 38375, Start Num: 3

Candidate Starts for Kepler\_75:  
(Start: 3 @38025 has 8 MA's), (4, 38088),

Gene: Lunar\_73 Start: 37996, Stop: 38376, Start Num: 2  
Candidate Starts for Lunar\_73:  
(Start: 2 @37996 has 1 MA's), (4, 38089),

Gene: Melons\_73 Start: 37979, Stop: 38383, Start Num: 1  
Candidate Starts for Melons\_73:  
(Start: 1 @37979 has 1 MA's), (4, 38096),

Gene: OtsoOtso\_72 Start: 37650, Stop: 38003, Start Num: 3  
Candidate Starts for OtsoOtso\_72:  
(Start: 3 @37650 has 8 MA's), (4, 37716),

Gene: PhirstandPhine\_78 Start: 37839, Stop: 38192, Start Num: 3  
Candidate Starts for PhirstandPhine\_78:  
(Start: 3 @37839 has 8 MA's), (4, 37905),

Gene: Pineda\_74 Start: 38058, Stop: 38345, Start Num: 4  
Candidate Starts for Pineda\_74:  
(Start: 3 @37995 has 8 MA's), (4, 38058),

Gene: Polka\_71 Start: 37650, Stop: 38003, Start Num: 3  
Candidate Starts for Polka\_71:  
(Start: 3 @37650 has 8 MA's), (4, 37716),