



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 291738 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291738 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Gshelby23\_28, Araxxi\_30, Arete\_30, Casino\_29, Hannabella\_30, DoTi\_30, Scruffy\_30
- Track 2 : Burro\_30
- Track 3 : MissAmericana\_33, Kikiko\_30

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

The start number called the most often in the published annotations is 2, it was called in 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Araxxi\_30, Arete\_30, Casino\_29, DoTi\_30, Gshelby23\_28, Hannabella\_30, Kikiko\_30, MissAmericana\_33, Scruffy\_30,

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

- Burro\_30,

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

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

Start 1:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Burro\_30 (EM1),

Start 2:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Araxxi\_30 (EM1), Arete\_30 (EM1), Casino\_29 (EM1), DoTi\_30 (EM1), Gshelby23\_28 (EM1), Hannabella\_30 (EM1),

Kikiko\_30 (EM2), MissAmericana\_33 (EM2), Scruffy\_30 (EM1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: EM1, EM2,

Info for manual annotations of cluster EM1:

- Start number 1 was manually annotated 1 time for cluster EM1.
- Start number 2 was manually annotated 6 times for cluster EM1.

Info for manual annotations of cluster EM2:

- Start number 2 was manually annotated 1 time for cluster EM2.

### **Gene Information:**

Gene: Araxxi\_30 Start: 36994, Stop: 37152, Start Num: 2

Candidate Starts for Araxxi\_30:

(Start: 2 @36994 has 7 MA's), (3, 37012),

Gene: Arete\_30 Start: 36697, Stop: 36855, Start Num: 2

Candidate Starts for Arete\_30:

(Start: 2 @36697 has 7 MA's), (3, 36715),

Gene: Burro\_30 Start: 36346, Stop: 36522, Start Num: 1

Candidate Starts for Burro\_30:

(Start: 1 @36346 has 1 MA's), (Start: 2 @36364 has 7 MA's), (3, 36382),

Gene: Casino\_29 Start: 36708, Stop: 36866, Start Num: 2

Candidate Starts for Casino\_29:

(Start: 2 @36708 has 7 MA's), (3, 36726),

Gene: DoTi\_30 Start: 37079, Stop: 37237, Start Num: 2

Candidate Starts for DoTi\_30:

(Start: 2 @37079 has 7 MA's), (3, 37097),

Gene: Gshelby23\_28 Start: 36643, Stop: 36801, Start Num: 2

Candidate Starts for Gshelby23\_28:

(Start: 2 @36643 has 7 MA's), (3, 36661),

Gene: Hannabella\_30 Start: 36684, Stop: 36842, Start Num: 2

Candidate Starts for Hannabella\_30:

(Start: 2 @36684 has 7 MA's), (3, 36702),

Gene: Kikiko\_30 Start: 35187, Stop: 35417, Start Num: 2

Candidate Starts for Kikiko\_30:

(Start: 2 @35187 has 7 MA's), (4, 35217), (5, 35247),

Gene: MissAmericana\_33 Start: 35683, Stop: 35886, Start Num: 2

Candidate Starts for MissAmericana\_33:

(Start: 2 @35683 has 7 MA's), (4, 35713), (5, 35743),

Gene: Scruffy\_30 Start: 36930, Stop: 37088, Start Num: 2  
Candidate Starts for Scruffy\_30:  
(Start: 2 @36930 has 7 MA's), (3, 36948),