



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 6694 Report

This analysis was run 04/05/24 on database version 557.

Pham number 6694 has 8 members, 2 are drafts.

Phages represented in each track:

- Track 1 : DoTi\_8, Araxxi\_8
- Track 2 : Scruffy\_8, Casino\_7
- Track 3 : Arete\_9
- Track 4 : Burro\_8
- Track 5 : Hannabella\_8
- Track 6 : Gshelby23\_7

### ***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 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Araxxi\_8, Arete\_9, DoTi\_8, Gshelby23\_7, Hannabella\_8,

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

- Burro\_8, Casino\_7, Scruffy\_8,

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

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

Start 1:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Casino\_7 (EM1), Scruffy\_8 (EM1),

Start 2:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 62.5% of time when present

- Phage (with cluster) where this start called: Araxxi\_8 (EM1), Arete\_9 (EM1), DoTi\_8 (EM1), Gshelby23\_7 (EM1), Hannabella\_8 (EM1),

Start 4:

- Found in 2 of 8 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Burro\_8 (EM1),

### **Summary by clusters:**

There is one cluster represented in this pham: EM1

Info for manual annotations of cluster EM1:

- Start number 2 was manually annotated 5 times for cluster EM1.
- Start number 4 was manually annotated 1 time for cluster EM1.

### **Gene Information:**

Gene: Araxxi\_8 Start: 5515, Stop: 5354, Start Num: 2

Candidate Starts for Araxxi\_8:

(1, 5527), (Start: 2 @5515 has 5 MA's), (3, 5485), (5, 5392),

Gene: Arete\_9 Start: 5406, Stop: 5245, Start Num: 2

Candidate Starts for Arete\_9:

(1, 5418), (Start: 2 @5406 has 5 MA's), (5, 5283),

Gene: Burro\_8 Start: 5177, Stop: 5049, Start Num: 4

Candidate Starts for Burro\_8:

(1, 5222), (Start: 2 @5210 has 5 MA's), (Start: 4 @5177 has 1 MA's), (5, 5087), (6, 5072),

Gene: Casino\_7 Start: 5247, Stop: 5074, Start Num: 1

Candidate Starts for Casino\_7:

(1, 5247), (Start: 2 @5235 has 5 MA's), (3, 5205), (5, 5112),

Gene: DoTi\_8 Start: 5500, Stop: 5339, Start Num: 2

Candidate Starts for DoTi\_8:

(1, 5512), (Start: 2 @5500 has 5 MA's), (3, 5470), (5, 5377),

Gene: Gshelby23\_7 Start: 5349, Stop: 5188, Start Num: 2

Candidate Starts for Gshelby23\_7:

(1, 5361), (Start: 2 @5349 has 5 MA's), (Start: 4 @5316 has 1 MA's), (5, 5226), (6, 5211),

Gene: Hannabella\_8 Start: 5232, Stop: 5071, Start Num: 2

Candidate Starts for Hannabella\_8:

(1, 5244), (Start: 2 @5232 has 5 MA's), (3, 5202), (5, 5109),

Gene: Scruffy\_8 Start: 5643, Stop: 5470, Start Num: 1

Candidate Starts for Scruffy\_8:

(1, 5643), (Start: 2 @5631 has 5 MA's), (3, 5601), (5, 5508),