



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 87060 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87060 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Omega\_201, Thibault\_175, Gonephishing\_188, Phoebus\_193
- Track 2 : MiaZeal\_197, Ariel\_195, Courthouse\_191, Squint\_189, Bombitas\_178, Pound\_184, Superphikiman\_192, Kalah2\_190, LittleE\_196
- Track 3 : Constella\_189, KashFlow\_190

### ***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 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel\_195, Bombitas\_178, Constella\_189, Courthouse\_191, Kalah2\_190, KashFlow\_190, LittleE\_196, MiaZeal\_197, Pound\_184, Squint\_189, Superphikiman\_192,

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

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

- Gonephishing\_188, Omega\_201, Phoebus\_193, Thibault\_175,

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

Start 1:

- Found in 11 of 15 ( 73.3% ) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel\_195 (J), Bombitas\_178 (J), Constella\_189 (J), Courthouse\_191 (J), Kalah2\_190 (J), KashFlow\_190 (J), LittleE\_196 (J), MiaZeal\_197 (J), Pound\_184 (J), Squint\_189 (J), Superphikiman\_192 (J),

Start 2:

- Found in 4 of 15 ( 26.7% ) of genes in pham

- Manual Annotations of this start: 3 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gonephishing\_188 (J), Omega\_201 (J), Phoebus\_193 (J), Thibault\_175 (J),

### **Summary by clusters:**

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 11 times for cluster J.
- Start number 2 was manually annotated 3 times for cluster J.

### **Gene Information:**

Gene: Ariel\_195 Start: 94432, Stop: 94262, Start Num: 1

Candidate Starts for Ariel\_195:

(Start: 1 @94432 has 11 MA's), (4, 94270),

Gene: Bombitas\_178 Start: 94177, Stop: 94007, Start Num: 1

Candidate Starts for Bombitas\_178:

(Start: 1 @94177 has 11 MA's), (4, 94015),

Gene: Constella\_189 Start: 96969, Stop: 96799, Start Num: 1

Candidate Starts for Constella\_189:

(Start: 1 @96969 has 11 MA's), (3, 96837), (4, 96807),

Gene: Courthouse\_191 Start: 94881, Stop: 94711, Start Num: 1

Candidate Starts for Courthouse\_191:

(Start: 1 @94881 has 11 MA's), (4, 94719),

Gene: Gonephishing\_188 Start: 95201, Stop: 95052, Start Num: 2

Candidate Starts for Gonephishing\_188:

(Start: 2 @95201 has 3 MA's), (3, 95090), (4, 95060),

Gene: Kalah2\_190 Start: 98240, Stop: 98070, Start Num: 1

Candidate Starts for Kalah2\_190:

(Start: 1 @98240 has 11 MA's), (4, 98078),

Gene: KashFlow\_190 Start: 96904, Stop: 96734, Start Num: 1

Candidate Starts for KashFlow\_190:

(Start: 1 @96904 has 11 MA's), (3, 96772), (4, 96742),

Gene: LittleE\_196 Start: 97119, Stop: 96949, Start Num: 1

Candidate Starts for LittleE\_196:

(Start: 1 @97119 has 11 MA's), (4, 96957),

Gene: MiaZeal\_197 Start: 95098, Stop: 94928, Start Num: 1

Candidate Starts for MiaZeal\_197:

(Start: 1 @95098 has 11 MA's), (4, 94936),

Gene: Omega\_201 Start: 98724, Stop: 98575, Start Num: 2  
Candidate Starts for Omega\_201:  
(Start: 2 @98724 has 3 MA's), (3, 98613), (4, 98583),

Gene: Phoebus\_193 Start: 99477, Stop: 99328, Start Num: 2  
Candidate Starts for Phoebus\_193:  
(Start: 2 @99477 has 3 MA's), (3, 99366), (4, 99336),

Gene: Pound\_184 Start: 95665, Stop: 95495, Start Num: 1  
Candidate Starts for Pound\_184:  
(Start: 1 @95665 has 11 MA's), (4, 95503),

Gene: Squint\_189 Start: 94709, Stop: 94539, Start Num: 1  
Candidate Starts for Squint\_189:  
(Start: 1 @94709 has 11 MA's), (4, 94547),

Gene: Superphikiman\_192 Start: 94576, Stop: 94406, Start Num: 1  
Candidate Starts for Superphikiman\_192:  
(Start: 1 @94576 has 11 MA's), (4, 94414),

Gene: Thibault\_175 Start: 93584, Stop: 93435, Start Num: 2  
Candidate Starts for Thibault\_175:  
(Start: 2 @93584 has 3 MA's), (3, 93473), (4, 93443),