



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 188697 Report

This analysis was run 11/02/24 on database version 579.

Pham number 188697 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Matzah\_31, Cinna\_30, MementoMori\_31
- Track 2 : Margaery\_30
- Track 3 : Kozie\_31
- Track 4 : Cressida\_32
- Track 5 : Terij\_31
- Track 6 : FuzzBuster\_39

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

The start number called the most often in the published annotations is 5, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cinna\_30, Matzah\_31, MementoMori\_31,

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:

- Cressida\_32, FuzzBuster\_39, Kozie\_31, Margaery\_30, Terij\_31,

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

Start 1:

- Found in 2 of 8 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kozie\_31 (EI), Terij\_31 (EI),

Start 2:

- Found in 1 of 8 ( 12.5% ) 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: FuzzBuster\_39 (singleton),

Start 5:

- Found in 3 of 8 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna\_30 (EI), Matzah\_31 (EI), MementoMori\_31 (EI),

Start 7:

- Found in 3 of 8 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Cressida\_32 (EI), Margaery\_30 (EI),

**Summary by clusters:**

There are 2 clusters represented in this pham: singleton, EI,

Info for manual annotations of cluster EI:

- Start number 1 was manually annotated 2 times for cluster EI.
- Start number 5 was manually annotated 3 times for cluster EI.
- Start number 7 was manually annotated 2 times for cluster EI.

**Gene Information:**

Gene: Cinna\_30 Start: 19644, Stop: 19907, Start Num: 5

Candidate Starts for Cinna\_30:

(Start: 5 @19644 has 3 MA's), (8, 19752), (10, 19869), (12, 19878),

Gene: Cressida\_32 Start: 19733, Stop: 19966, Start Num: 7

Candidate Starts for Cressida\_32:

(Start: 7 @19733 has 2 MA's), (8, 19811), (10, 19928), (11, 19931), (12, 19937),

Gene: FuzzBuster\_39 Start: 20330, Stop: 20572, Start Num: 2

Candidate Starts for FuzzBuster\_39:

(Start: 2 @20330 has 1 MA's), (3, 20342), (6, 20387), (Start: 7 @20396 has 2 MA's),

Gene: Kozie\_31 Start: 19882, Stop: 20199, Start Num: 1

Candidate Starts for Kozie\_31:

(Start: 1 @19882 has 2 MA's), (4, 19927), (12, 20170),

Gene: Margaery\_30 Start: 19615, Stop: 19851, Start Num: 7

Candidate Starts for Margaery\_30:

(Start: 7 @19615 has 2 MA's), (10, 19813), (12, 19822),

Gene: Matzah\_31 Start: 19620, Stop: 19883, Start Num: 5

Candidate Starts for Matzah\_31:

(Start: 5 @19620 has 3 MA's), (8, 19728), (10, 19845), (12, 19854),

Gene: MementoMori\_31 Start: 19350, Stop: 19613, Start Num: 5

Candidate Starts for MementoMori\_31:

(Start: 5 @19350 has 3 MA's), (8, 19458), (10, 19575), (12, 19584),

Gene: Terij\_31 Start: 19615, Stop: 19935, Start Num: 1

Candidate Starts for Terij\_31:

(Start: 1 @19615 has 2 MA's), (9, 19849), (10, 19897), (12, 19906),