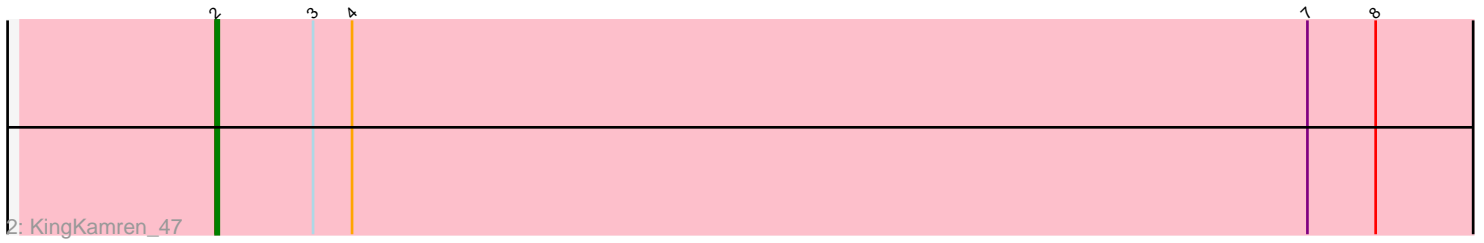
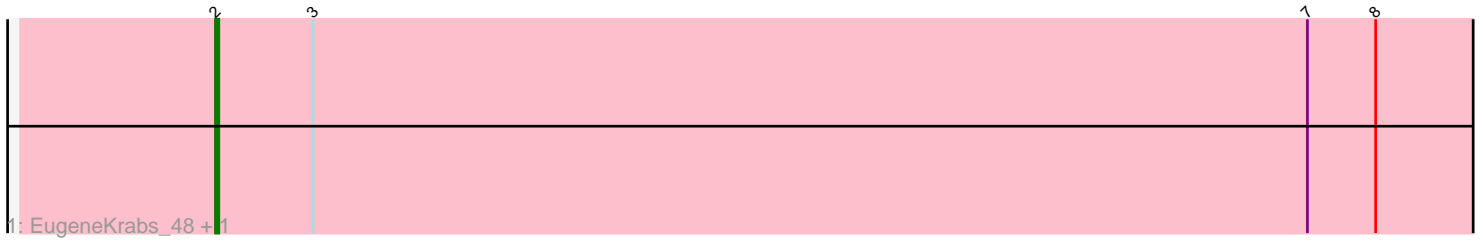


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 297198 Report

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

Pham number 297198 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : EugeneKrabs\_48, Zhengyi\_48
- Track 2 : KingKamren\_47
- Track 3 : YellowPanda\_51, Sorvannah\_49, Salvatore2000\_49, TinyTimothy\_48
- Track 4 : Wesak\_49
- Track 5 : MiamiPanther\_50
- Track 6 : JessellCookie\_50

### ***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 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- JessellCookie\_50, MiamiPanther\_50, Salvatore2000\_49, Sorvannah\_49, TinyTimothy\_48, Wesak\_49, YellowPanda\_51,

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

- 

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

- EugeneKrabs\_48, KingKamren\_47, Zhengyi\_48,

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

Start 2:

- Found in 3 of 10 ( 30.0% ) 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: EugeneKrabs\_48 (EK), KingKamren\_47 (EK), Zhengyi\_48 (EK),

Start 5:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 5 of 8

- Called 100.0% of time when present
- Phage (with cluster) where this start called: JessellCookie\_50 (EK1), MiamiPanther\_50 (EK1), Salvatore2000\_49 (EK1), Sorvannah\_49 (EK1), TinyTimothy\_48 (EK1), Wesak\_49 (EK1), YellowPanda\_51 (EK1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: EK1, EK,

Info for manual annotations of cluster EK:

- Start number 2 was manually annotated 3 times for cluster EK.

Info for manual annotations of cluster EK1:

- Start number 5 was manually annotated 5 times for cluster EK1.

### **Gene Information:**

Gene: EugeneKrabs\_48 Start: 51903, Stop: 52316, Start Num: 2

Candidate Starts for EugeneKrabs\_48:

(Start: 2 @51903 has 3 MA's), (3, 51933), (7, 52239), (8, 52260),

Gene: JessellCookie\_50 Start: 50926, Stop: 51270, Start Num: 5

Candidate Starts for JessellCookie\_50:

(1, 50836), (Start: 5 @50926 has 5 MA's), (6, 51175), (7, 51190), (8, 51211),

Gene: KingKamren\_47 Start: 51870, Stop: 52283, Start Num: 2

Candidate Starts for KingKamren\_47:

(Start: 2 @51870 has 3 MA's), (3, 51900), (4, 51912), (7, 52206), (8, 52227),

Gene: MiamiPanther\_50 Start: 50923, Stop: 51267, Start Num: 5

Candidate Starts for MiamiPanther\_50:

(Start: 5 @50923 has 5 MA's), (6, 51172), (7, 51187), (8, 51208),

Gene: Salvatore2000\_49 Start: 50923, Stop: 51255, Start Num: 5

Candidate Starts for Salvatore2000\_49:

(Start: 5 @50923 has 5 MA's), (6, 51160), (7, 51175), (8, 51196),

Gene: Sorvannah\_49 Start: 50923, Stop: 51255, Start Num: 5

Candidate Starts for Sorvannah\_49:

(Start: 5 @50923 has 5 MA's), (6, 51160), (7, 51175), (8, 51196),

Gene: TinyTimothy\_48 Start: 50923, Stop: 51255, Start Num: 5

Candidate Starts for TinyTimothy\_48:

(Start: 5 @50923 has 5 MA's), (6, 51160), (7, 51175), (8, 51196),

Gene: Wesak\_49 Start: 50768, Stop: 51112, Start Num: 5

Candidate Starts for Wesak\_49:

(Start: 5 @50768 has 5 MA's), (6, 51017), (7, 51032), (8, 51053),

Gene: YellowPanda\_51 Start: 50649, Stop: 50981, Start Num: 5

Candidate Starts for YellowPanda\_51:

(Start: 5 @50649 has 5 MA's), (6, 50886), (7, 50901), (8, 50922),

Gene: Zhengyi\_48 Start: 51952, Stop: 52365, Start Num: 2

Candidate Starts for Zhengyi\_48:

(Start: 2 @51952 has 3 MA's), (3, 51982), (7, 52288), (8, 52309),