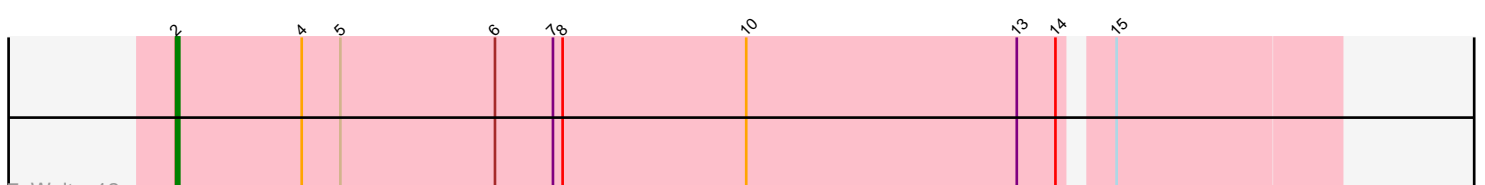
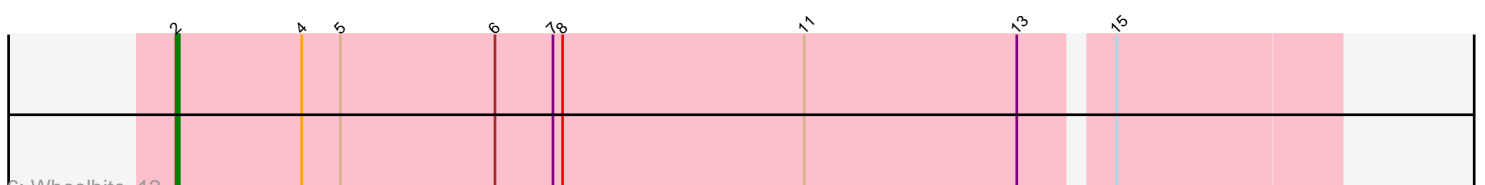
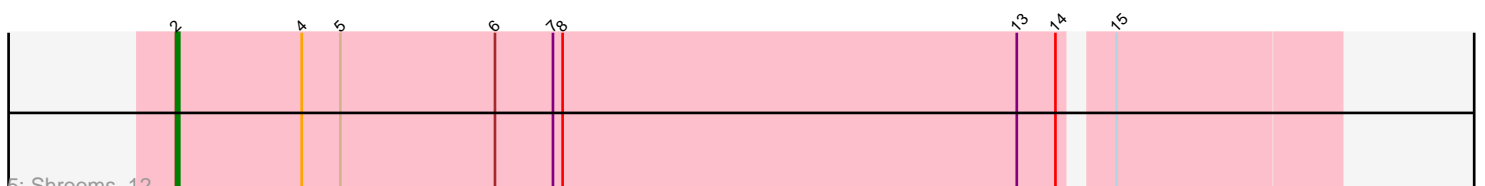
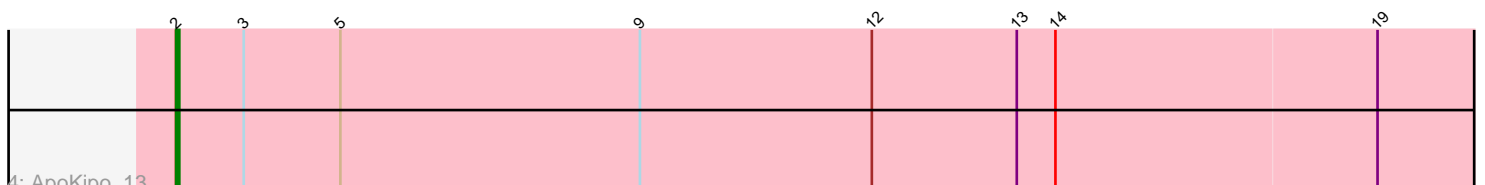
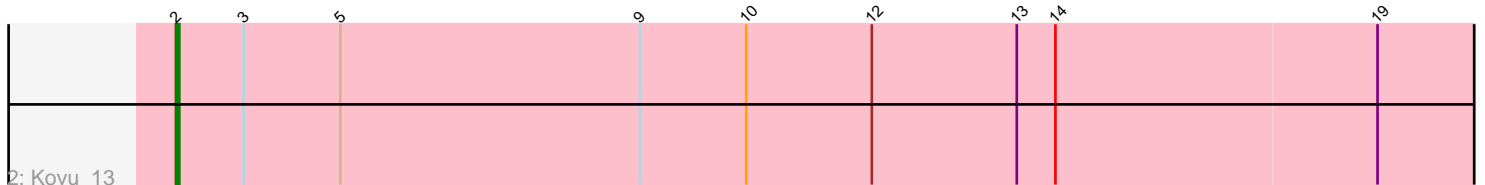
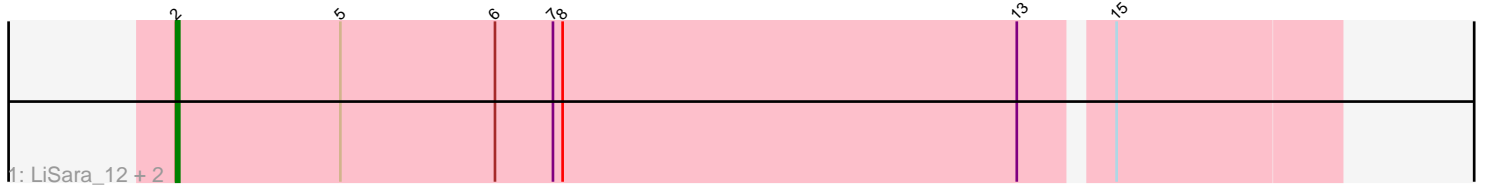


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 295279 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295279 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : LiSara\_12, Laroye\_12, Salgado\_12
- Track 2 : Kovu\_13
- Track 3 : Edmundo\_12
- Track 4 : ApoKipo\_13
- Track 5 : Shrooms\_12
- Track 6 : Wheelbite\_12
- Track 7 : Waltz\_12
- Track 8 : Kharcho\_79, Ottawa\_79

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

Genes that call this "Most Annotated" start:

- ApoKipo\_13, Edmundo\_12, Kovu\_13, Laroye\_12, LiSara\_12, Salgado\_12, Shrooms\_12, Waltz\_12, Wheelbite\_12,

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

- 

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

- Kharcho\_79, Ottawa\_79,

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

Start 1:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kharcho\_79 (FM), Ottawa\_79 (FM),

Start 2:

- Found in 9 of 11 ( 81.8% ) of genes in pham

- Manual Annotations of this start: 9 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ApoKipo\_13 (AL), Edmundo\_12 (AL), Kovu\_13 (AL), Laroye\_12 (AL), LiSara\_12 (AL), Salgado\_12 (AL), Shrooms\_12 (AL), Waltz\_12 (AL), Wheelbite\_12 (AL),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AL, FM,

Info for manual annotations of cluster AL:

- Start number 2 was manually annotated 9 times for cluster AL.

Info for manual annotations of cluster FM:

- Start number 1 was manually annotated 2 times for cluster FM.

### **Gene Information:**

Gene: ApoKipo\_13 Start: 9072, Stop: 9479, Start Num: 2

Candidate Starts for ApoKipo\_13:

(Start: 2 @9072 has 9 MA's), (3, 9093), (5, 9123), (9, 9216), (12, 9288), (13, 9333), (14, 9345), (19, 9444),

Gene: Edmundo\_12 Start: 9190, Stop: 9543, Start Num: 2

Candidate Starts for Edmundo\_12:

(Start: 2 @9190 has 9 MA's), (4, 9229), (5, 9241), (6, 9289), (7, 9307), (8, 9310), (13, 9451), (15, 9475), (16, 9484),

Gene: Kharcho\_79 Start: 47453, Stop: 47854, Start Num: 1

Candidate Starts for Kharcho\_79:

(Start: 1 @47453 has 2 MA's), (5, 47534), (8, 47603), (17, 47816), (18, 47831),

Gene: Kovu\_13 Start: 9095, Stop: 9502, Start Num: 2

Candidate Starts for Kovu\_13:

(Start: 2 @9095 has 9 MA's), (3, 9116), (5, 9146), (9, 9239), (10, 9272), (12, 9311), (13, 9356), (14, 9368), (19, 9467),

Gene: Laroye\_12 Start: 8928, Stop: 9281, Start Num: 2

Candidate Starts for Laroye\_12:

(Start: 2 @8928 has 9 MA's), (5, 8979), (6, 9027), (7, 9045), (8, 9048), (13, 9189), (15, 9213),

Gene: LiSara\_12 Start: 8962, Stop: 9315, Start Num: 2

Candidate Starts for LiSara\_12:

(Start: 2 @8962 has 9 MA's), (5, 9013), (6, 9061), (7, 9079), (8, 9082), (13, 9223), (15, 9247),

Gene: Ottawa\_79 Start: 47403, Stop: 47804, Start Num: 1

Candidate Starts for Ottawa\_79:

(Start: 1 @47403 has 2 MA's), (5, 47484), (8, 47553), (17, 47766), (18, 47781),

Gene: Salgado\_12 Start: 8936, Stop: 9289, Start Num: 2

Candidate Starts for Salgado\_12:

(Start: 2 @8936 has 9 MA's), (5, 8987), (6, 9035), (7, 9053), (8, 9056), (13, 9197), (15, 9221),

Gene: Shrooms\_12 Start: 8982, Stop: 9335, Start Num: 2

Candidate Starts for Shrooms\_12:

(Start: 2 @8982 has 9 MA's), (4, 9021), (5, 9033), (6, 9081), (7, 9099), (8, 9102), (13, 9243), (14, 9255), (15, 9267),

Gene: Waltz\_12 Start: 9075, Stop: 9428, Start Num: 2

Candidate Starts for Waltz\_12:

(Start: 2 @9075 has 9 MA's), (4, 9114), (5, 9126), (6, 9174), (7, 9192), (8, 9195), (10, 9252), (13, 9336), (14, 9348), (15, 9360),

Gene: Wheelbite\_12 Start: 9024, Stop: 9377, Start Num: 2

Candidate Starts for Wheelbite\_12:

(Start: 2 @9024 has 9 MA's), (4, 9063), (5, 9075), (6, 9123), (7, 9141), (8, 9144), (11, 9219), (13, 9285), (15, 9309),