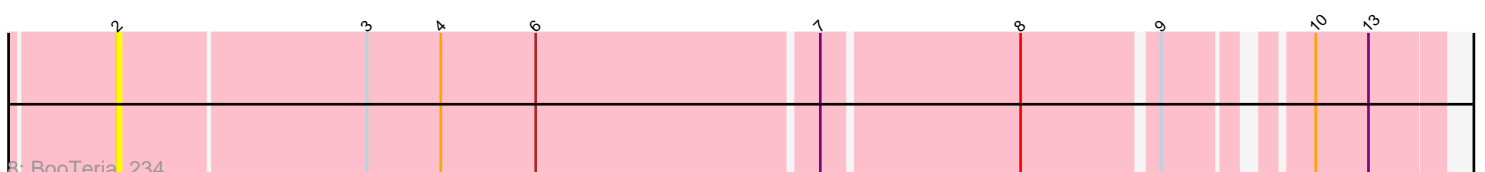
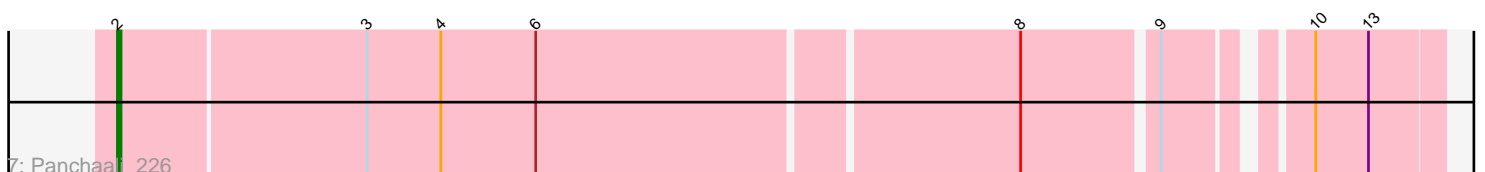
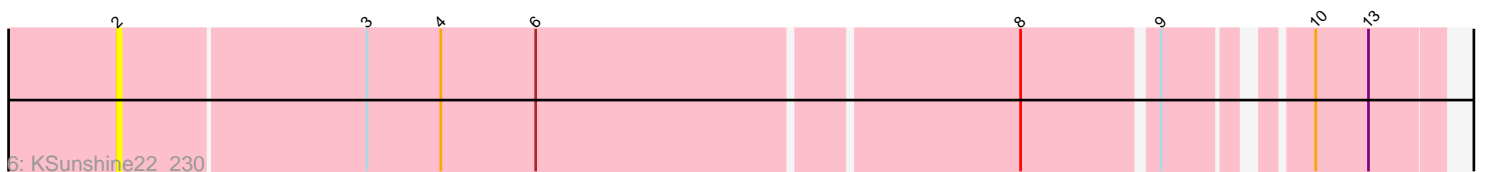
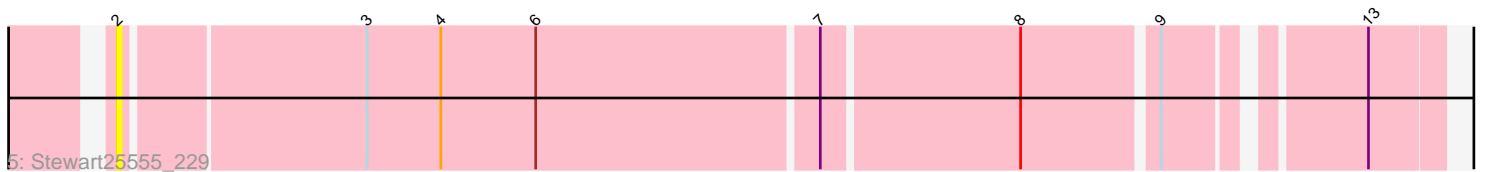
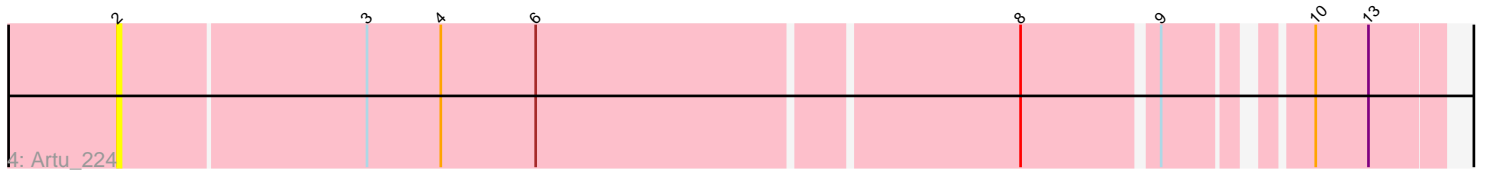
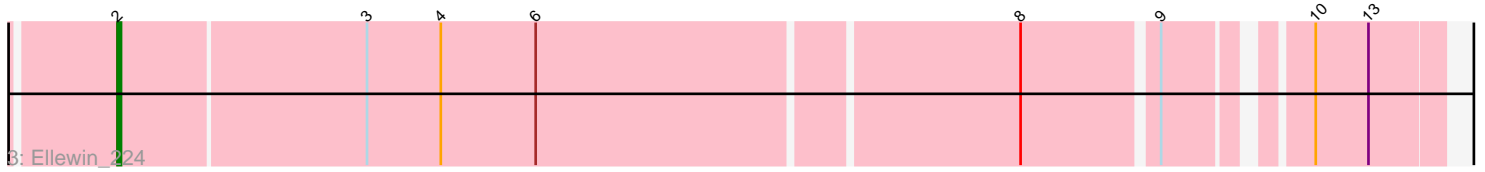
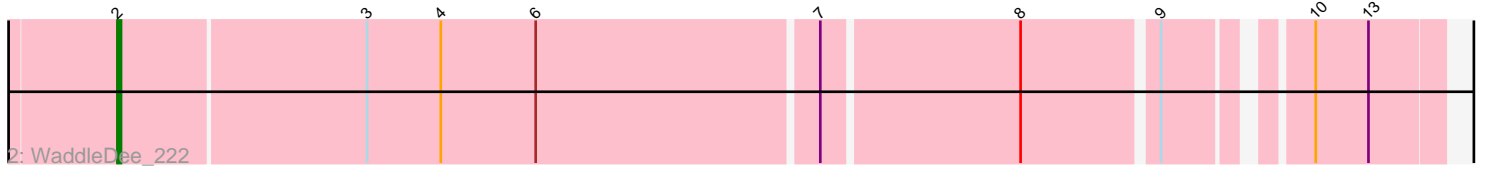
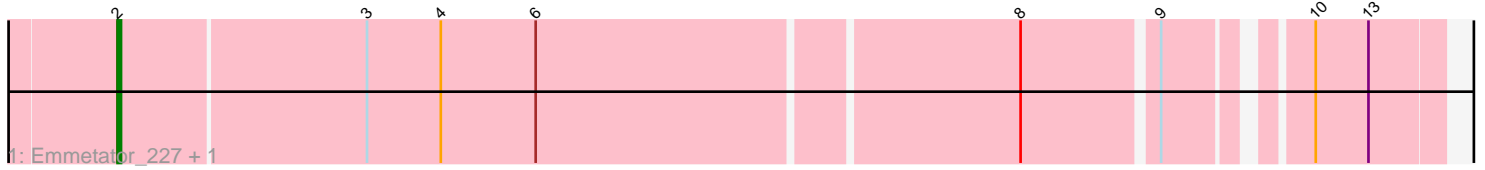


Pham 295330



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 295330 Report

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

Pham number 295330 has 10 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Emmetator\_227, DunneganBoMo\_226
- Track 2 : WaddleDee\_222
- Track 3 : Ellewin\_224
- Track 4 : Artu\_224
- Track 5 : Stewart25555\_229
- Track 6 : KSunshine22\_230
- Track 7 : Panchaali\_226
- Track 8 : BooTeria\_234
- Track 9 : Magritte\_222

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

Genes that call this "Most Annotated" start:

- Artu\_224, BooTeria\_234, DunneganBoMo\_226, Ellewin\_224, Emmetator\_227, KSunshine22\_230, Panchaali\_226, Stewart25555\_229, WaddleDee\_222,

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

- 

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

- Magritte\_222,

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

Start 1:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Magritte\_222 (singleton),

Start 2:

- Found in 9 of 10 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 4 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu\_224 (FC), BooTeria\_234 (FC), DunneganBoMo\_226 (FC), Ellewin\_224 (FC), Emmetator\_227 (FC), KSunshine22\_230 (FC), Panchaali\_226 (FC), Stewart25555\_229 (FC), WaddleDee\_222 (FC),

### **Summary by clusters:**

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

Info for manual annotations of cluster FC:

- Start number 2 was manually annotated 4 times for cluster FC.

### **Gene Information:**

Gene: Artu\_224 Start: 156095, Stop: 156448, Start Num: 2

Candidate Starts for Artu\_224:

(Start: 2 @156095 has 4 MA's), (3, 156164), (4, 156185), (6, 156212), (8, 156344), (9, 156380), (10, 156413), (13, 156428),

Gene: BooTeria\_234 Start: 155925, Stop: 156278, Start Num: 2

Candidate Starts for BooTeria\_234:

(Start: 2 @155925 has 4 MA's), (3, 155994), (4, 156015), (6, 156042), (7, 156120), (8, 156174), (9, 156210), (10, 156243), (13, 156258),

Gene: DunneganBoMo\_226 Start: 155428, Stop: 155781, Start Num: 2

Candidate Starts for DunneganBoMo\_226:

(Start: 2 @155428 has 4 MA's), (3, 155497), (4, 155518), (6, 155545), (8, 155677), (9, 155713), (10, 155746), (13, 155761),

Gene: Ellewin\_224 Start: 154702, Stop: 155055, Start Num: 2

Candidate Starts for Ellewin\_224:

(Start: 2 @154702 has 4 MA's), (3, 154771), (4, 154792), (6, 154819), (8, 154951), (9, 154987), (10, 155020), (13, 155035),

Gene: Emmetator\_227 Start: 154568, Stop: 154921, Start Num: 2

Candidate Starts for Emmetator\_227:

(Start: 2 @154568 has 4 MA's), (3, 154637), (4, 154658), (6, 154685), (8, 154817), (9, 154853), (10, 154886), (13, 154901),

Gene: KSunshine22\_230 Start: 154100, Stop: 154453, Start Num: 2

Candidate Starts for KSunshine22\_230:

(Start: 2 @154100 has 4 MA's), (3, 154169), (4, 154190), (6, 154217), (8, 154349), (9, 154385), (10, 154418), (13, 154433),

Gene: Magritte\_222 Start: 117575, Stop: 117985, Start Num: 1

Candidate Starts for Magritte\_222:

(Start: 1 @117575 has 1 MA's), (5, 117677), (11, 117926), (12, 117929), (13, 117932),

Gene: Panchaali\_226 Start: 156131, Stop: 156484, Start Num: 2

Candidate Starts for Panchaali\_226:

(Start: 2 @156131 has 4 MA's), (3, 156200), (4, 156221), (6, 156248), (8, 156380), (9, 156416), (10, 156449), (13, 156464),

Gene: Stewart25555\_229 Start: 154481, Stop: 154831, Start Num: 2

Candidate Starts for Stewart25555\_229:

(Start: 2 @154481 has 4 MA's), (3, 154547), (4, 154568), (6, 154595), (7, 154673), (8, 154727), (9, 154763), (13, 154811),

Gene: WaddleDee\_222 Start: 154253, Stop: 154606, Start Num: 2

Candidate Starts for WaddleDee\_222:

(Start: 2 @154253 has 4 MA's), (3, 154322), (4, 154343), (6, 154370), (7, 154448), (8, 154502), (9, 154538), (10, 154571), (13, 154586),