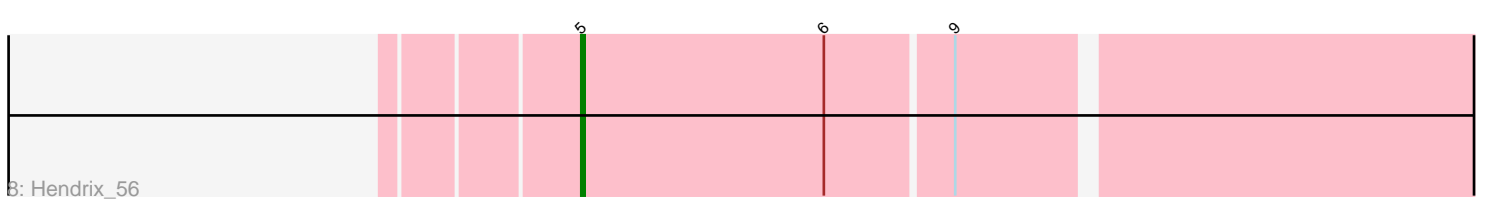
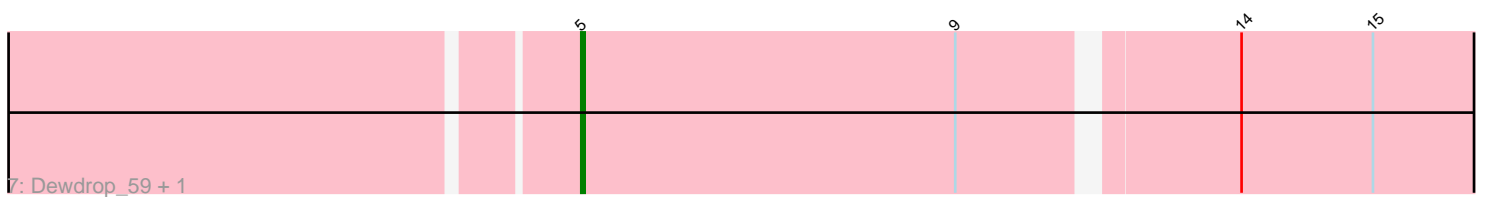
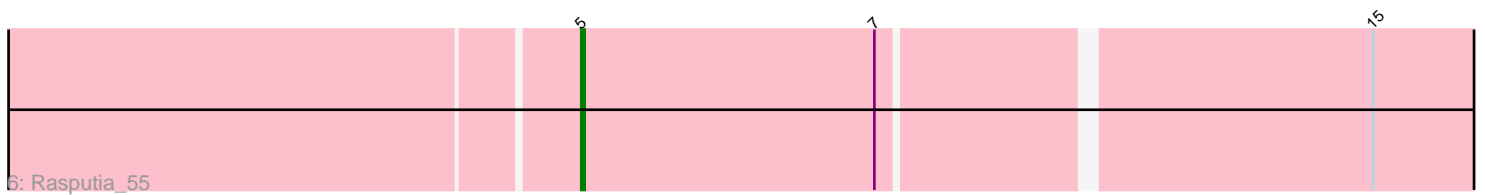
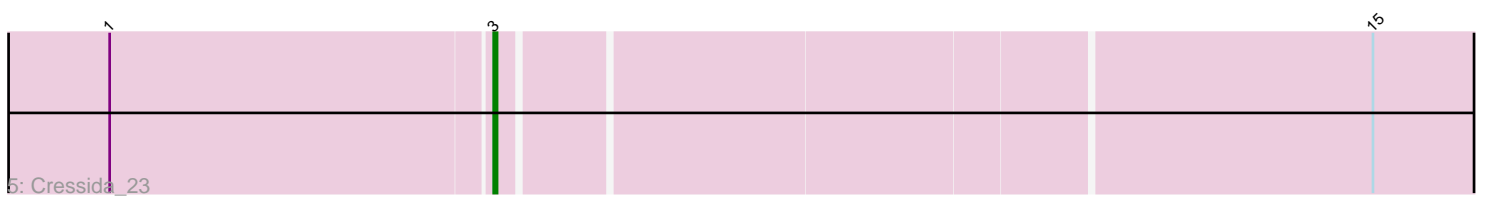
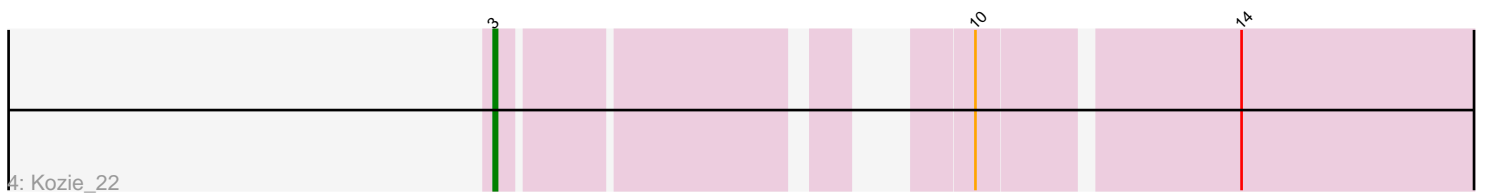
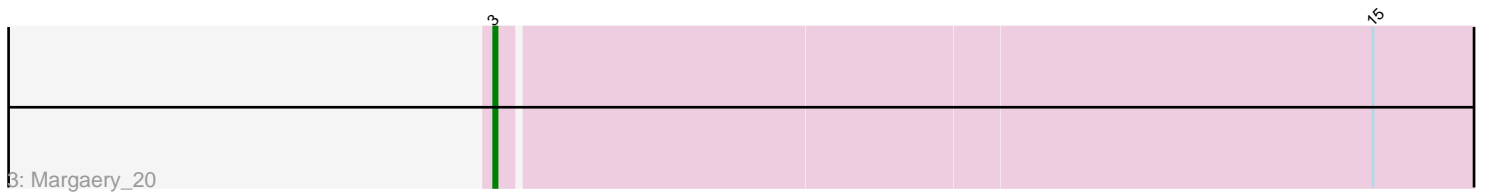
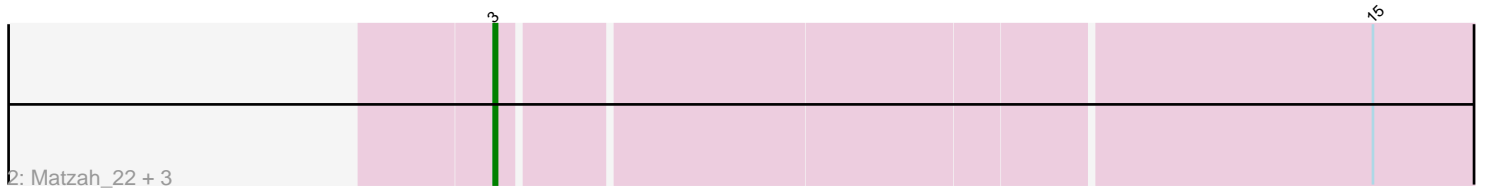
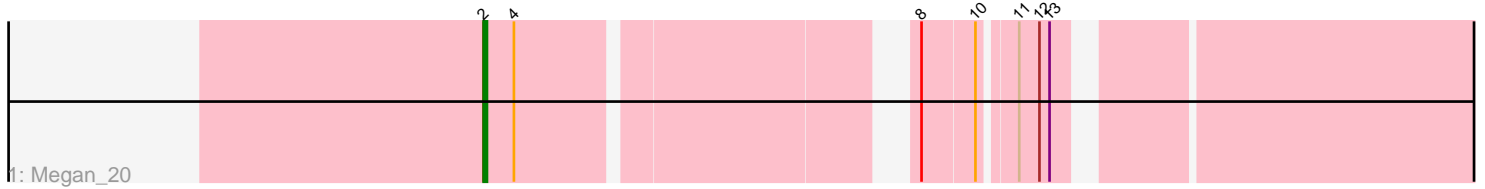


Pham 171903



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 171903 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171903 has 12 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Megan\_20
- Track 2 : Matzah\_22, Cinna\_21, Terij\_21, MementoMori\_22
- Track 3 : Margaery\_20
- Track 4 : Kozie\_22
- Track 5 : Cressida\_23
- Track 6 : Rasputia\_55
- Track 7 : Dewdrop\_59, Leaf\_59
- Track 8 : Hendrix\_56

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

The start number called the most often in the published annotations is 3, it was called in 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cinna\_21, Cressida\_23, Kozie\_22, Margaery\_20, Matzah\_22, MementoMori\_22, Terij\_21,

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

- 

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

- Dewdrop\_59, Hendrix\_56, Leaf\_59, Megan\_20, Rasputia\_55,

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

Start 2:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan\_20 (EC),

Start 3:

- Found in 7 of 12 ( 58.3% ) of genes in pham

- Manual Annotations of this start: 7 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna\_21 (EI), Cressida\_23 (EI), Kozie\_22 (EI), Margaery\_20 (EI), Matzah\_22 (EI), MementoMori\_22 (EI), Terij\_21 (EI),

Start 5:

- Found in 4 of 12 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dewdrop\_59 (GC), Hendrix\_56 (GC), Leaf\_59 (GC), Rasputia\_55 (GC),

### **Summary by clusters:**

There are 3 clusters represented in this pham: GC, EI, EC,

Info for manual annotations of cluster EC:

- Start number 2 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EI:

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

Info for manual annotations of cluster GC:

- Start number 5 was manually annotated 4 times for cluster GC.

### **Gene Information:**

Gene: Cinna\_21 Start: 12839, Stop: 13123, Start Num: 3

Candidate Starts for Cinna\_21:

(Start: 3 @12839 has 7 MA's), (15, 13088),

Gene: Cressida\_23 Start: 12873, Stop: 13157, Start Num: 3

Candidate Starts for Cressida\_23:

(1, 12762), (Start: 3 @12873 has 7 MA's), (15, 13122),

Gene: Dewdrop\_59 Start: 29132, Stop: 29386, Start Num: 5

Candidate Starts for Dewdrop\_59:

(Start: 5 @29132 has 4 MA's), (9, 29243), (14, 29318), (15, 29357),

Gene: Hendrix\_56 Start: 29152, Stop: 29406, Start Num: 5

Candidate Starts for Hendrix\_56:

(Start: 5 @29152 has 4 MA's), (6, 29224), (9, 29260),

Gene: Kozie\_22 Start: 12878, Stop: 13129, Start Num: 3

Candidate Starts for Kozie\_22:

(Start: 3 @12878 has 7 MA's), (10, 12989), (14, 13061),

Gene: Leaf\_59 Start: 29132, Stop: 29386, Start Num: 5

Candidate Starts for Leaf\_59:

(Start: 5 @29132 has 4 MA's), (9, 29243), (14, 29318), (15, 29357),

Gene: Margaery\_20 Start: 12616, Stop: 12906, Start Num: 3  
Candidate Starts for Margaery\_20:  
(Start: 3 @12616 has 7 MA's), (15, 12871),

Gene: Matzah\_22 Start: 12816, Stop: 13100, Start Num: 3  
Candidate Starts for Matzah\_22:  
(Start: 3 @12816 has 7 MA's), (15, 13065),

Gene: Megan\_20 Start: 14422, Stop: 14679, Start Num: 2  
Candidate Starts for Megan\_20:  
(Start: 2 @14422 has 1 MA's), (4, 14431), (8, 14533), (10, 14548), (11, 14557), (12, 14563), (13, 14566),

Gene: MementoMori\_22 Start: 12532, Stop: 12816, Start Num: 3  
Candidate Starts for MementoMori\_22:  
(Start: 3 @12532 has 7 MA's), (15, 12781),

Gene: Rasputia\_55 Start: 28838, Stop: 29092, Start Num: 5  
Candidate Starts for Rasputia\_55:  
(Start: 5 @28838 has 4 MA's), (7, 28925), (15, 29063),

Gene: Terij\_21 Start: 12677, Stop: 12964, Start Num: 3  
Candidate Starts for Terij\_21:  
(Start: 3 @12677 has 7 MA's), (15, 12929),