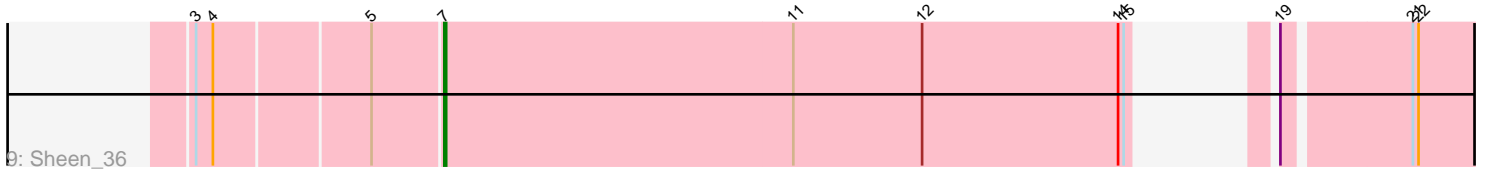
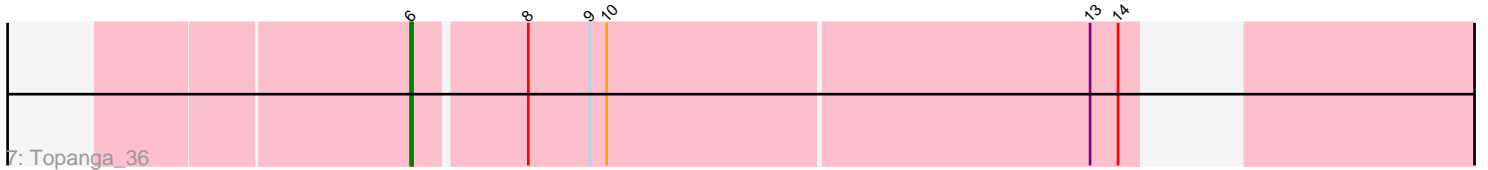
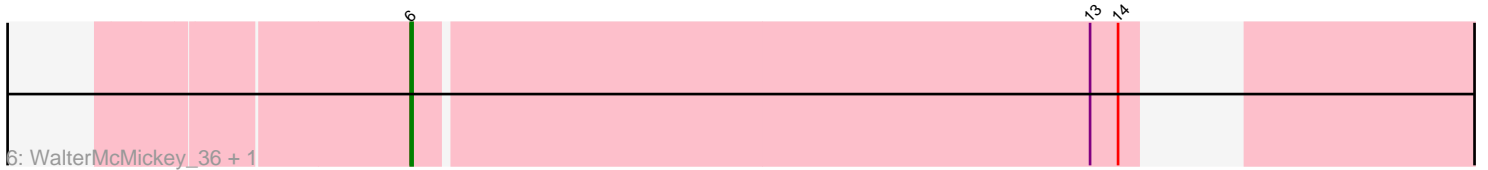
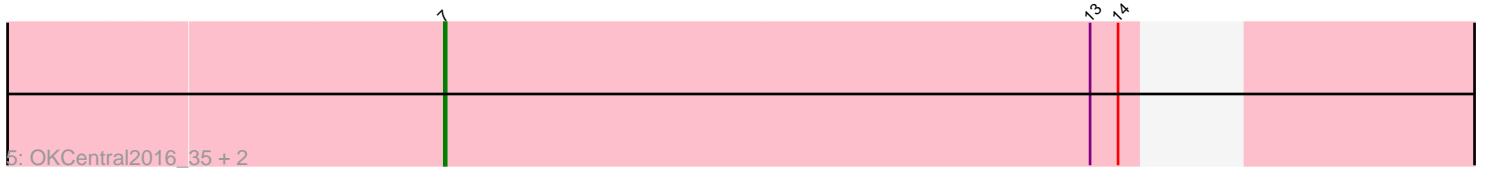
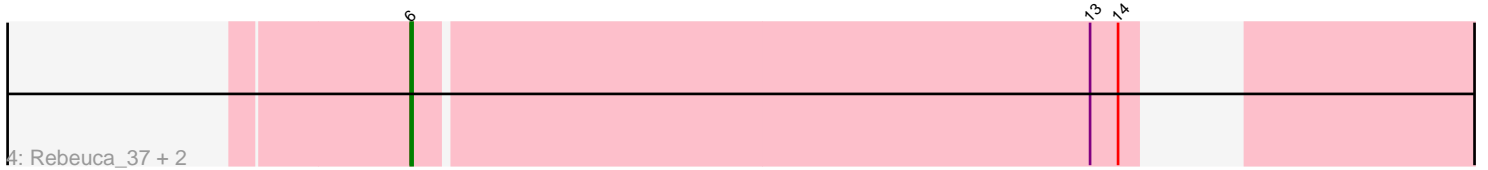
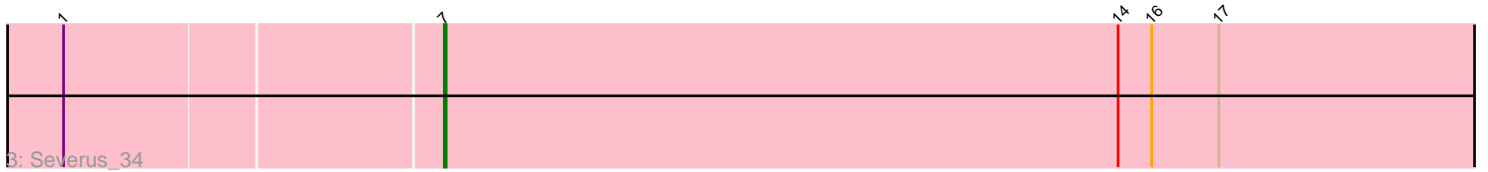
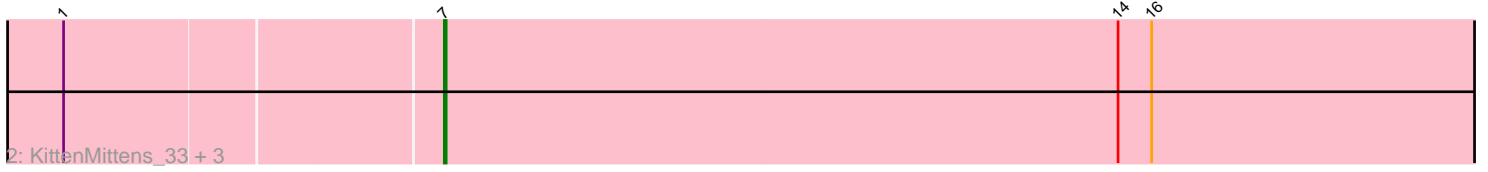
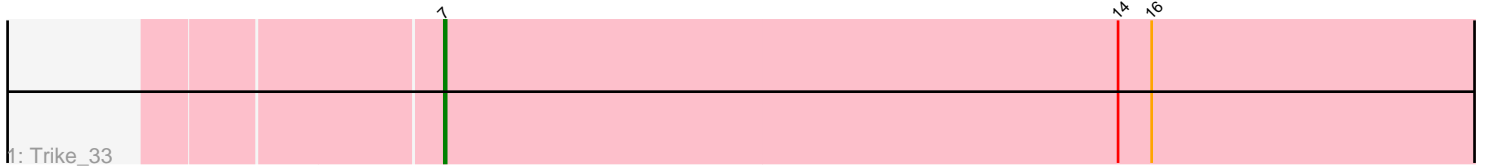


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 305372 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305372 has 17 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Trike\_33
- Track 2 : KittenMittens\_33, Drake94\_34, PeaceMeal1\_34, Poompha\_34
- Track 3 : Severus\_34
- Track 4 : Rebeuca\_37, Edison31\_36, Kristoff\_37
- Track 5 : OKCentral2016\_35, Chupacabra\_35, Goose\_36
- Track 6 : WalterMcMickey\_36, Twister\_36
- Track 7 : Topanga\_36
- Track 8 : AvatarAhPeg\_36
- Track 9 : Sheen\_36

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

The start number called the most often in the published annotations is 7, it was called in 10 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chupacabra\_35, Drake94\_34, Goose\_36, KittenMittens\_33, OKCentral2016\_35, PeaceMeal1\_34, Poompha\_34, Severus\_34, Sheen\_36, Trike\_33,

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

- AvatarAhPeg\_36,

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

- Edison31\_36, Kristoff\_37, Rebeuca\_37, Topanga\_36, Twister\_36, WalterMcMickey\_36,

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

Start 2:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AvatarAhPeg\_36 (A4),

#### Start 6:

- Found in 6 of 17 ( 35.3% ) of genes in pham
- Manual Annotations of this start: 6 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Edison31\_36 (A10), Kristoff\_37 (A10), Rebeuca\_37 (A10), Topanga\_36 (A10), Twister\_36 (A10), WalterMcMickey\_36 (A10),

#### Start 7:

- Found in 11 of 17 ( 64.7% ) of genes in pham
- Manual Annotations of this start: 10 of 17
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Chupacabra\_35 (A10), Drake94\_34 (A10), Goose\_36 (A10), KittenMittens\_33 (A10), OKCentral2016\_35 (A10), PeaceMeal1\_34 (A10), Poompha\_34 (A10), Severus\_34 (A10), Sheen\_36 (A7), Trike\_33 (A10),

### **Summary by clusters:**

There are 3 clusters represented in this pham: A10, A7, A4,

Info for manual annotations of cluster A10:

- Start number 6 was manually annotated 6 times for cluster A10.
- Start number 7 was manually annotated 9 times for cluster A10.

Info for manual annotations of cluster A4:

- Start number 2 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A7:

- Start number 7 was manually annotated 1 time for cluster A7.

### **Gene Information:**

Gene: AvatarAhPeg\_36 Start: 28482, Stop: 27874, Start Num: 2

Candidate Starts for AvatarAhPeg\_36:

(Start: 2 @28482 has 1 MA's), (Start: 7 @28353 has 10 MA's), (14, 27993), (18, 27975), (20, 27942),

Gene: Chupacabra\_35 Start: 27785, Stop: 27258, Start Num: 7

Candidate Starts for Chupacabra\_35:

(Start: 7 @27785 has 10 MA's), (13, 27440), (14, 27425),

Gene: Drake94\_34 Start: 26656, Stop: 26072, Start Num: 7

Candidate Starts for Drake94\_34:

(1, 26851), (Start: 7 @26656 has 10 MA's), (14, 26296), (16, 26278),

Gene: Edison31\_36 Start: 28017, Stop: 27478, Start Num: 6

Candidate Starts for Edison31\_36:

(Start: 6 @28017 has 6 MA's), (13, 27660), (14, 27645),

Gene: Goose\_36 Start: 27589, Stop: 27062, Start Num: 7

Candidate Starts for Goose\_36:

(Start: 7 @27589 has 10 MA's), (13, 27244), (14, 27229),

Gene: KittenMittens\_33 Start: 26664, Stop: 26080, Start Num: 7  
Candidate Starts for KittenMittens\_33:  
(1, 26859), (Start: 7 @26664 has 10 MA's), (14, 26304), (16, 26286),

Gene: Kristoff\_37 Start: 28181, Stop: 27642, Start Num: 6  
Candidate Starts for Kristoff\_37:  
(Start: 6 @28181 has 6 MA's), (13, 27824), (14, 27809),

Gene: OKCentral2016\_35 Start: 27492, Stop: 26965, Start Num: 7  
Candidate Starts for OKCentral2016\_35:  
(Start: 7 @27492 has 10 MA's), (13, 27147), (14, 27132),

Gene: PeaceMeal1\_34 Start: 26665, Stop: 26081, Start Num: 7  
Candidate Starts for PeaceMeal1\_34:  
(1, 26860), (Start: 7 @26665 has 10 MA's), (14, 26305), (16, 26287),

Gene: Poompha\_34 Start: 26663, Stop: 26079, Start Num: 7  
Candidate Starts for Poompha\_34:  
(1, 26858), (Start: 7 @26663 has 10 MA's), (14, 26303), (16, 26285),

Gene: Rebeuca\_37 Start: 28182, Stop: 27643, Start Num: 6  
Candidate Starts for Rebeuca\_37:  
(Start: 6 @28182 has 6 MA's), (13, 27825), (14, 27810),

Gene: Severus\_34 Start: 26663, Stop: 26079, Start Num: 7  
Candidate Starts for Severus\_34:  
(1, 26858), (Start: 7 @26663 has 10 MA's), (14, 26303), (16, 26285), (17, 26249),

Gene: Sheen\_36 Start: 29802, Stop: 29311, Start Num: 7  
Candidate Starts for Sheen\_36:  
(3, 29925), (4, 29916), (5, 29838), (Start: 7 @29802 has 10 MA's), (11, 29616), (12, 29547), (14, 29442), (15, 29439), (19, 29424), (21, 29361), (22, 29358),

Gene: Topanga\_36 Start: 28017, Stop: 27481, Start Num: 6  
Candidate Starts for Topanga\_36:  
(Start: 6 @28017 has 6 MA's), (8, 27960), (9, 27927), (10, 27918), (13, 27663), (14, 27648),

Gene: Trike\_33 Start: 26496, Stop: 25912, Start Num: 7  
Candidate Starts for Trike\_33:  
(Start: 7 @26496 has 10 MA's), (14, 26136), (16, 26118),

Gene: Twister\_36 Start: 27928, Stop: 27389, Start Num: 6  
Candidate Starts for Twister\_36:  
(Start: 6 @27928 has 6 MA's), (13, 27571), (14, 27556),

Gene: WalterMcMickey\_36 Start: 27928, Stop: 27389, Start Num: 6  
Candidate Starts for WalterMcMickey\_36:  
(Start: 6 @27928 has 6 MA's), (13, 27571), (14, 27556),