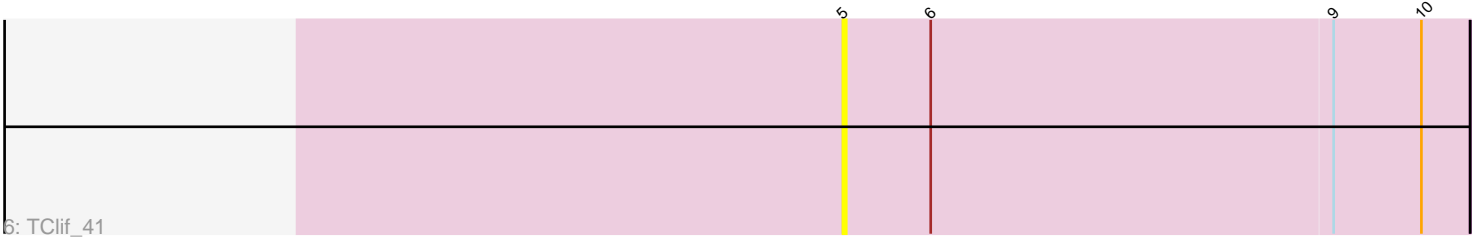
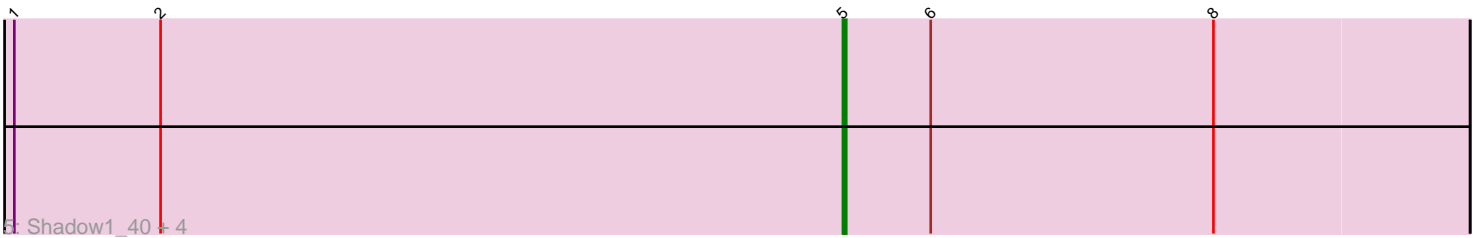
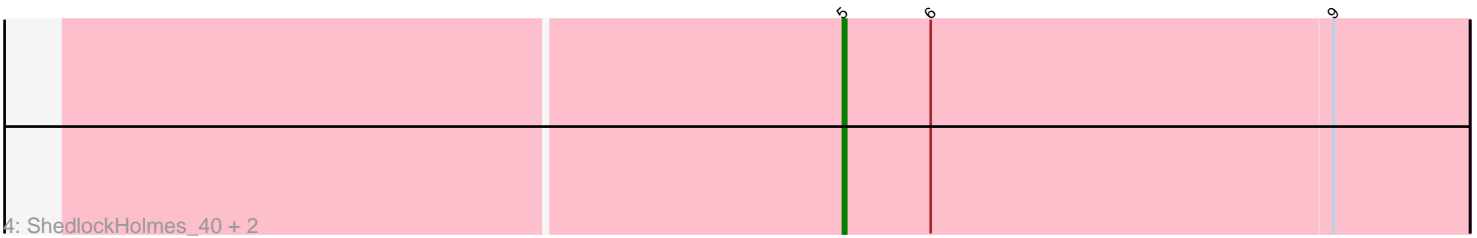
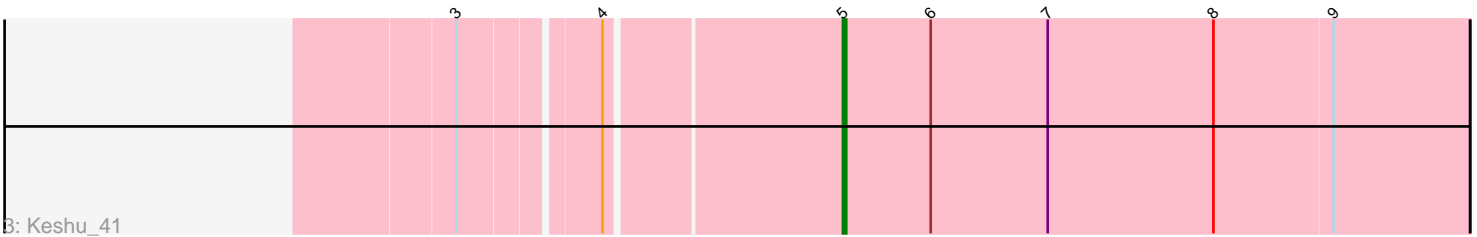
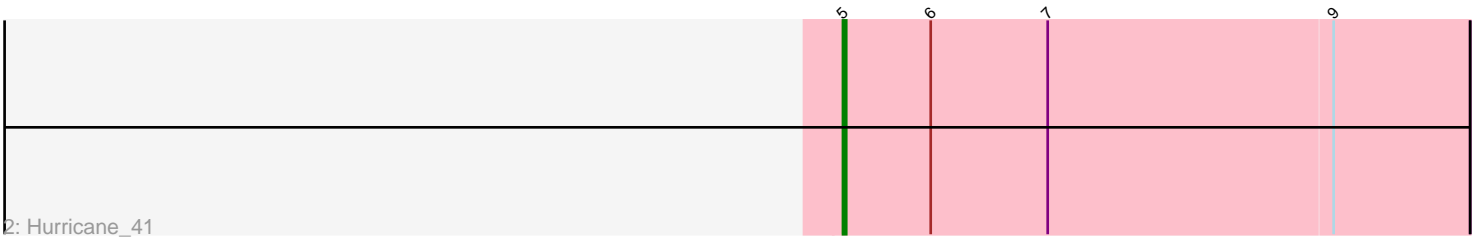
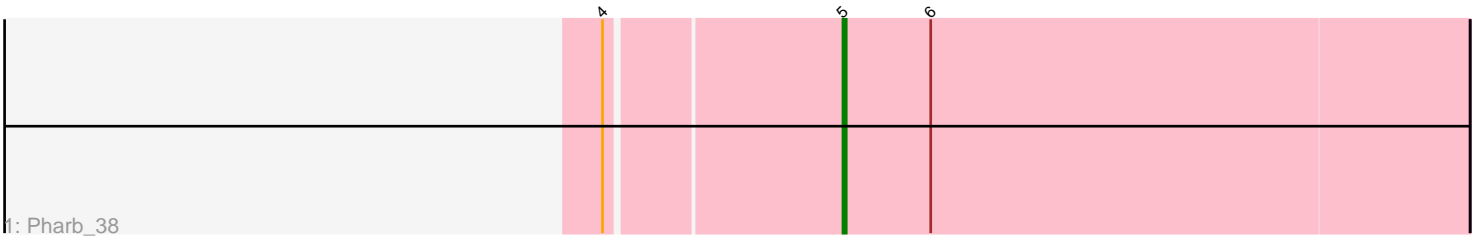


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 155185 Report

This analysis was run 04/28/24 on database version 559.

Pham number 155185 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Pharb\_38
- Track 2 : Hurricane\_41
- Track 3 : Keshu\_41
- Track 4 : ShedlockHolmes\_40, TBond007\_39, Pixie\_39
- Track 5 : Shadow1\_40, Sunflower1121\_40, Ximenita\_42, Syra333\_41, Krueger\_41
- Track 6 : TClif\_41

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

Genes that call this "Most Annotated" start:

- Hurricane\_41, Keshu\_41, Krueger\_41, Pharb\_38, Pixie\_39, Shadow1\_40, ShedlockHolmes\_40, Sunflower1121\_40, Syra333\_41, TBond007\_39, TClif\_41, Ximenita\_42,

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

- 

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

- 

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

Start 5:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hurricane\_41 (K3), Keshu\_41 (K3), Krueger\_41 (K6), Pharb\_38 (K3), Pixie\_39 (K3), Shadow1\_40 (K6), ShedlockHolmes\_40 (K3), Sunflower1121\_40 (K6), Syra333\_41 (K6), TBond007\_39 (K3), TClif\_41 (K6), Ximenita\_42 (K6),

## Summary by clusters:

There are 2 clusters represented in this pham: K3, K6,

Info for manual annotations of cluster K3:

- Start number 5 was manually annotated 6 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 5 was manually annotated 5 times for cluster K6.

## Gene Information:

Gene: Hurricane\_41 Start: 31674, Stop: 31865, Start Num: 5

Candidate Starts for Hurricane\_41:

(Start: 5 @31674 has 11 MA's), (6, 31701), (7, 31737), (9, 31824),

Gene: Keshu\_41 Start: 31494, Stop: 31685, Start Num: 5

Candidate Starts for Keshu\_41:

(3, 31389), (4, 31428), (Start: 5 @31494 has 11 MA's), (6, 31521), (7, 31557), (8, 31608), (9, 31644),

Gene: Krueger\_41 Start: 30260, Stop: 30451, Start Num: 5

Candidate Starts for Krueger\_41:

(1, 30005), (2, 30050), (Start: 5 @30260 has 11 MA's), (6, 30287), (8, 30374),

Gene: Pharb\_38 Start: 30582, Stop: 30773, Start Num: 5

Candidate Starts for Pharb\_38:

(4, 30516), (Start: 5 @30582 has 11 MA's), (6, 30609),

Gene: Pixie\_39 Start: 30929, Stop: 31120, Start Num: 5

Candidate Starts for Pixie\_39:

(Start: 5 @30929 has 11 MA's), (6, 30956), (9, 31079),

Gene: Shadow1\_40 Start: 30169, Stop: 30360, Start Num: 5

Candidate Starts for Shadow1\_40:

(1, 29914), (2, 29959), (Start: 5 @30169 has 11 MA's), (6, 30196), (8, 30283),

Gene: ShedlockHolmes\_40 Start: 31460, Stop: 31651, Start Num: 5

Candidate Starts for ShedlockHolmes\_40:

(Start: 5 @31460 has 11 MA's), (6, 31487), (9, 31610),

Gene: Sunflower1121\_40 Start: 30262, Stop: 30453, Start Num: 5

Candidate Starts for Sunflower1121\_40:

(1, 30007), (2, 30052), (Start: 5 @30262 has 11 MA's), (6, 30289), (8, 30376),

Gene: Syra333\_41 Start: 30188, Stop: 30379, Start Num: 5

Candidate Starts for Syra333\_41:

(1, 29933), (2, 29978), (Start: 5 @30188 has 11 MA's), (6, 30215), (8, 30302),

Gene: TBond007\_39 Start: 30928, Stop: 31119, Start Num: 5

Candidate Starts for TBond007\_39:

(Start: 5 @30928 has 11 MA's), (6, 30955), (9, 31078),

Gene: TClif\_41 Start: 30382, Stop: 30573, Start Num: 5

Candidate Starts for TClif\_41:

(Start: 5 @30382 has 11 MA's), (6, 30409), (9, 30532), (10, 30559),

Gene: Ximenita\_42 Start: 30373, Stop: 30564, Start Num: 5

Candidate Starts for Ximenita\_42:

(1, 30118), (2, 30163), (Start: 5 @30373 has 11 MA's), (6, 30400), (8, 30487),