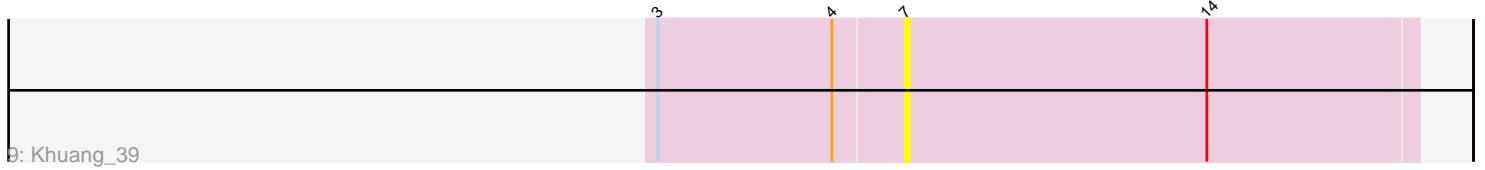
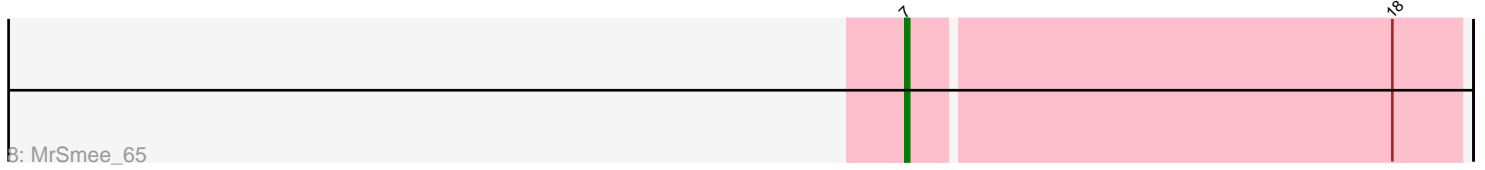
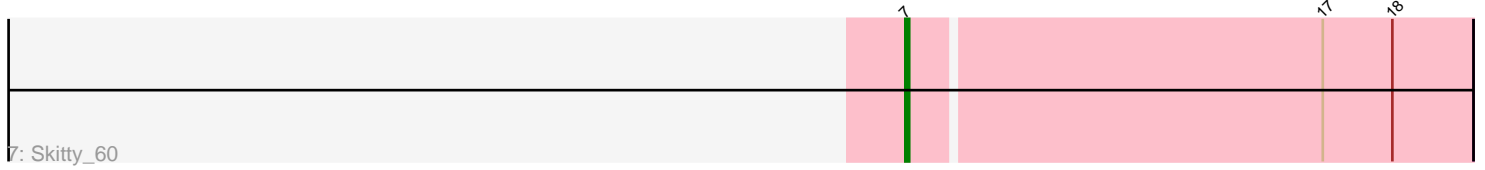
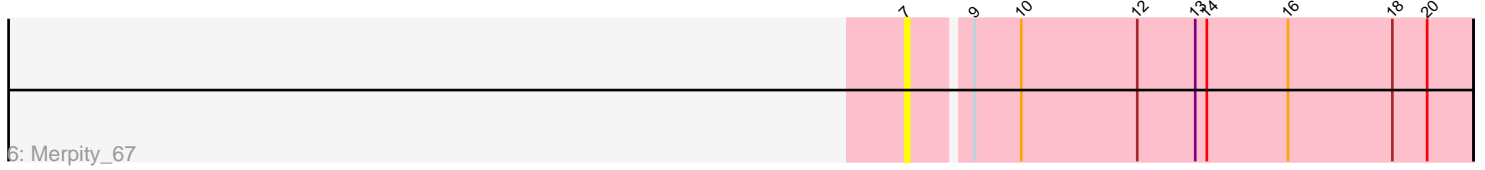
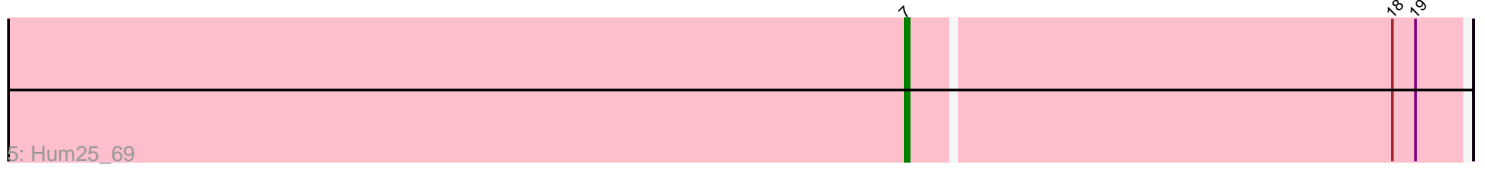
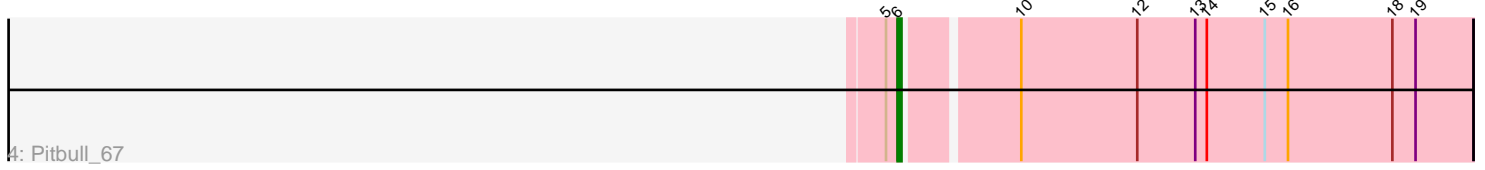
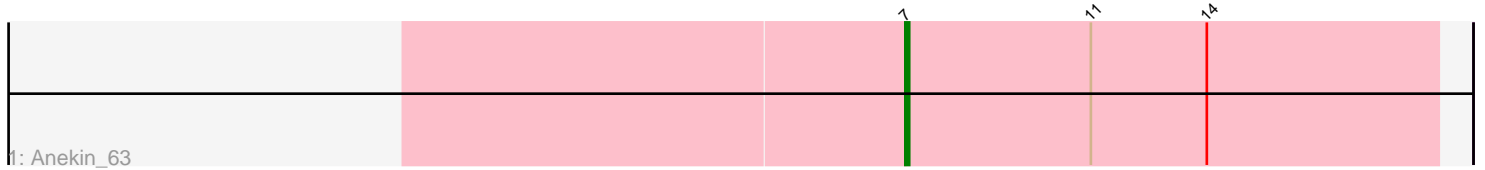


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 305515 Report

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

Pham number 305515 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Anekin\_63
- Track 2 : LeBruni\_62
- Track 3 : BlackSpider\_49
- Track 4 : Pitbull\_67
- Track 5 : Hum25\_69
- Track 6 : Merpity\_67
- Track 7 : Skitty\_60
- Track 8 : MrSmee\_65
- Track 9 : Khuang\_39

### ***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 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anekin\_63, Hum25\_69, Khuang\_39, LeBruni\_62, Merpity\_67, MrSmee\_65, Skitty\_60,

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

- 

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

- BlackSpider\_49, Pitbull\_67,

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

Start 6:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pitbull\_67 (FQ),

Start 7:

- Found in 7 of 9 ( 77.8% ) of genes in pham
- Manual Annotations of this start: 5 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anekin\_63 (AY), Hum25\_69 (FQ), Khuang\_39 (FS), LeBruni\_62 (AY), Merpity\_67 (FQ), MrSmee\_65 (FQ), Skitty\_60 (FQ),

Start 8:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlackSpider\_49 (FN),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AY, FQ, FS, FN,

Info for manual annotations of cluster AY:

- Start number 7 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster FN:

- Start number 8 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FQ:

- Start number 6 was manually annotated 1 time for cluster FQ.
- Start number 7 was manually annotated 3 times for cluster FQ.

### **Gene Information:**

Gene: Anekin\_63 Start: 34902, Stop: 35039, Start Num: 7

Candidate Starts for Anekin\_63:

(Start: 7 @34902 has 5 MA's), (11, 34950), (14, 34980),

Gene: BlackSpider\_49 Start: 31161, Stop: 31292, Start Num: 8

Candidate Starts for BlackSpider\_49:

(1, 30954), (2, 30957), (Start: 8 @31161 has 1 MA's),

Gene: Hum25\_69 Start: 37651, Stop: 37791, Start Num: 7

Candidate Starts for Hum25\_69:

(Start: 7 @37651 has 5 MA's), (18, 37774), (19, 37780),

Gene: Khuang\_39 Start: 25888, Stop: 25757, Start Num: 7

Candidate Starts for Khuang\_39:

(3, 25951), (4, 25906), (Start: 7 @25888 has 5 MA's), (14, 25810),

Gene: LeBruni\_62 Start: 33844, Stop: 33981, Start Num: 7

Candidate Starts for LeBruni\_62:

(Start: 7 @33844 has 5 MA's), (11, 33892), (14, 33922),

Gene: Merpity\_67 Start: 37204, Stop: 37347, Start Num: 7

Candidate Starts for Merpity\_67:

(Start: 7 @37204 has 5 MA's), (9, 37219), (10, 37231), (12, 37261), (13, 37276), (14, 37279), (16, 37300), (18, 37327), (20, 37336),

Gene: MrSmee\_65 Start: 37015, Stop: 37155, Start Num: 7

Candidate Starts for MrSmee\_65:

(Start: 7 @37015 has 5 MA's), (18, 37138),

Gene: Pitbull\_67 Start: 37117, Stop: 37260, Start Num: 6

Candidate Starts for Pitbull\_67:

(5, 37114), (Start: 6 @37117 has 1 MA's), (10, 37144), (12, 37174), (13, 37189), (14, 37192), (15, 37207), (16, 37213), (18, 37240), (19, 37246),

Gene: Skitty\_60 Start: 35254, Stop: 35397, Start Num: 7

Candidate Starts for Skitty\_60:

(Start: 7 @35254 has 5 MA's), (17, 35359), (18, 35377),