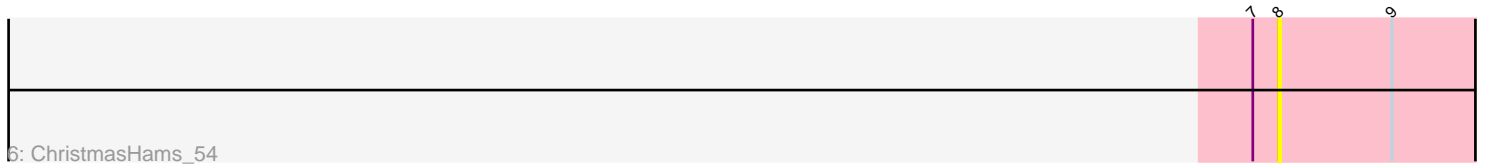
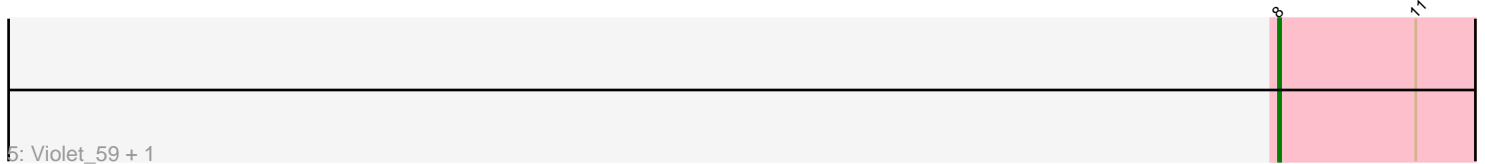
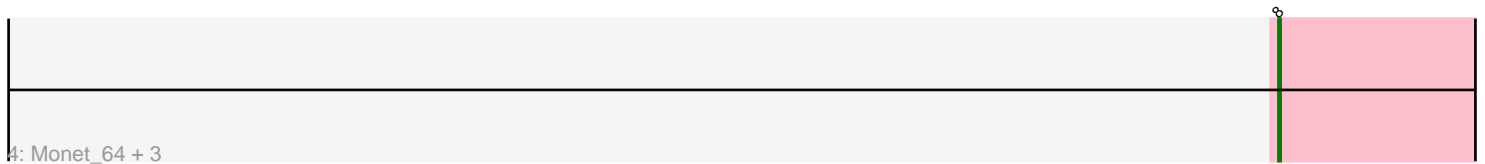
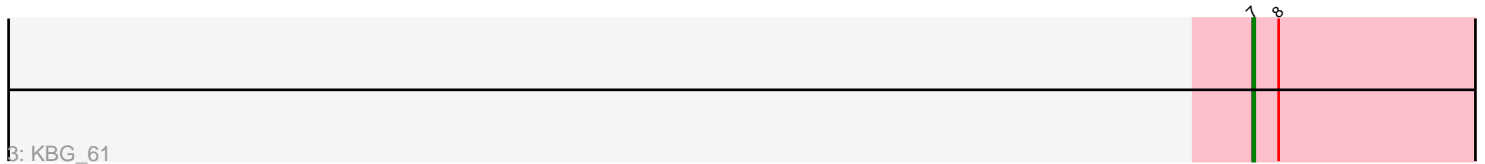
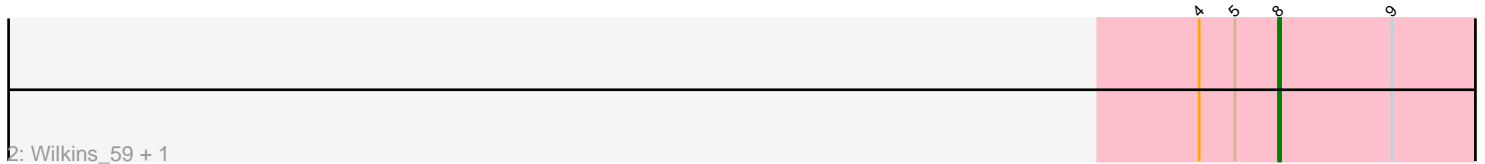
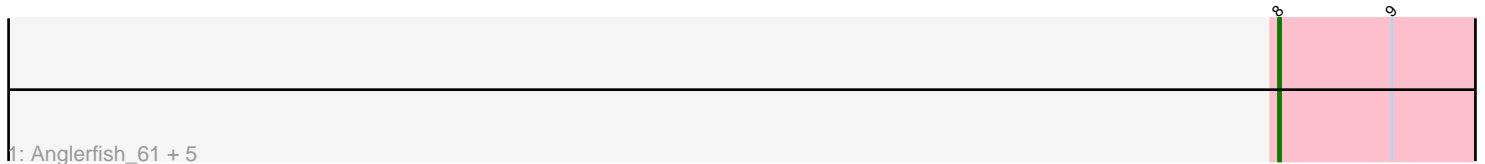


Pham 303703



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 303703 Report

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

Pham number 303703 has 19 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Anglerfish\_61, Arcanine\_63, Rutherferd\_63, Slagathor\_63, Smeagol\_63, Manatee\_61
- Track 2 : Wilkins\_59, Topgun\_59
- Track 3 : KBG\_61
- Track 4 : Monet\_64, Rhynn\_59, Treddle\_62, ILeeKay\_63
- Track 5 : Violet\_59, Hami1\_56
- Track 6 : ChristmasHams\_54
- Track 7 : Phontbonne\_59
- Track 8 : Eris\_58
- Track 9 : Medusa\_59

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

The start number called the most often in the published annotations is 8, it was called in 15 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anglerfish\_61, Arcanine\_63, ChristmasHams\_54, Hami1\_56, ILeeKay\_63, Manatee\_61, Monet\_64, Phontbonne\_59, Rhynn\_59, Rutherferd\_63, Slagathor\_63, Smeagol\_63, Topgun\_59, Treddle\_62, Violet\_59, Wilkins\_59,

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

- Eris\_58, KBG\_61, Medusa\_59,

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

- 

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

Start 6:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Eris\_58 (A4), Medusa\_59 (A4),

Start 7:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: KBG\_61 (A1),

Start 8:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 15 of 18
- Called 84.2% of time when present
- Phage (with cluster) where this start called: Anglerfish\_61 (A1), Arcanine\_63 (A1), ChristmasHams\_54 (A1), Hami1\_56 (A1), ILeeKay\_63 (A1), Manatee\_61 (A1), Monet\_64 (A1), Phontbonne\_59 (A4), Rhynn\_59 (A1), Rutherferd\_63 (A1), Slagathor\_63 (A1), Smeagol\_63 (A1), Topgun\_59 (A1), Treddle\_62 (A1), Violet\_59 (A1), Wilkins\_59 (A1),

**Summary by clusters:**

There are 2 clusters represented in this pham: A1, A4,

Info for manual annotations of cluster A1:

- Start number 7 was manually annotated 1 time for cluster A1.
- Start number 8 was manually annotated 14 times for cluster A1.

Info for manual annotations of cluster A4:

- Start number 6 was manually annotated 2 times for cluster A4.
- Start number 8 was manually annotated 1 time for cluster A4.

**Gene Information:**

Gene: Anglerfish\_61 Start: 41309, Stop: 41190, Start Num: 8

Candidate Starts for Anglerfish\_61:

(Start: 8 @41309 has 15 MA's), (9, 41252),

Gene: Arcanine\_63 Start: 42033, Stop: 41914, Start Num: 8

Candidate Starts for Arcanine\_63:

(Start: 8 @42033 has 15 MA's), (9, 41976),

Gene: ChristmasHams\_54 Start: 38077, Stop: 37958, Start Num: 8

Candidate Starts for ChristmasHams\_54:

(Start: 7 @38089 has 1 MA's), (Start: 8 @38077 has 15 MA's), (9, 38020),

Gene: Eris\_58 Start: 39075, Stop: 38959, Start Num: 6

Candidate Starts for Eris\_58:

(2, 39213), (3, 39126), (Start: 6 @39075 has 2 MA's), (Start: 8 @39060 has 15 MA's), (11, 38991),

Gene: Hami1\_56 Start: 36682, Stop: 36563, Start Num: 8

Candidate Starts for Hami1\_56:

(Start: 8 @36682 has 15 MA's), (11, 36613),

Gene: ILeeKay\_63 Start: 40898, Stop: 40779, Start Num: 8  
Candidate Starts for ILeeKay\_63:  
(Start: 8 @40898 has 15 MA's),

Gene: KBG\_61 Start: 42353, Stop: 42222, Start Num: 7  
Candidate Starts for KBG\_61:  
(Start: 7 @42353 has 1 MA's), (Start: 8 @42341 has 15 MA's),

Gene: Manatee\_61 Start: 40655, Stop: 40536, Start Num: 8  
Candidate Starts for Manatee\_61:  
(Start: 8 @40655 has 15 MA's), (9, 40598),

Gene: Medusa\_59 Start: 39074, Stop: 38958, Start Num: 6  
Candidate Starts for Medusa\_59:  
(2, 39212), (3, 39125), (Start: 6 @39074 has 2 MA's), (Start: 8 @39059 has 15 MA's), (10, 38993), (11, 38990),

Gene: Monet\_64 Start: 42789, Stop: 42670, Start Num: 8  
Candidate Starts for Monet\_64:  
(Start: 8 @42789 has 15 MA's),

Gene: Phontbonne\_59 Start: 38951, Stop: 38850, Start Num: 8  
Candidate Starts for Phontbonne\_59:  
(1, 39560), (2, 39104), (3, 39017), (Start: 6 @38966 has 2 MA's), (Start: 8 @38951 has 15 MA's), (10, 38885), (11, 38882),

Gene: Rhynn\_59 Start: 40477, Stop: 40358, Start Num: 8  
Candidate Starts for Rhynn\_59:  
(Start: 8 @40477 has 15 MA's),

Gene: Rutherferd\_63 Start: 42293, Stop: 42174, Start Num: 8  
Candidate Starts for Rutherferd\_63:  
(Start: 8 @42293 has 15 MA's), (9, 42236),

Gene: Slagathor\_63 Start: 42929, Stop: 42810, Start Num: 8  
Candidate Starts for Slagathor\_63:  
(Start: 8 @42929 has 15 MA's), (9, 42872),

Gene: Smeagol\_63 Start: 42752, Stop: 42633, Start Num: 8  
Candidate Starts for Smeagol\_63:  
(Start: 8 @42752 has 15 MA's), (9, 42695),

Gene: Topgun\_59 Start: 39781, Stop: 39662, Start Num: 8  
Candidate Starts for Topgun\_59:  
(4, 39820), (5, 39802), (Start: 8 @39781 has 15 MA's), (9, 39724),

Gene: Treddle\_62 Start: 42301, Stop: 42182, Start Num: 8  
Candidate Starts for Treddle\_62:  
(Start: 8 @42301 has 15 MA's),

Gene: Violet\_59 Start: 42659, Stop: 42540, Start Num: 8  
Candidate Starts for Violet\_59:  
(Start: 8 @42659 has 15 MA's), (11, 42590),

Gene: Wilkins\_59 Start: 39711, Stop: 39592, Start Num: 8

Candidate Starts for Wilkins\_59:

(4, 39750), (5, 39732), (Start: 8 @39711 has 15 MA's), (9, 39654),