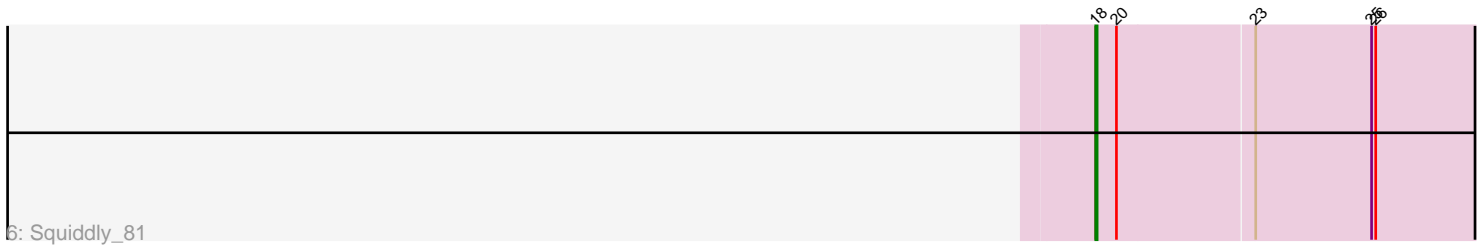
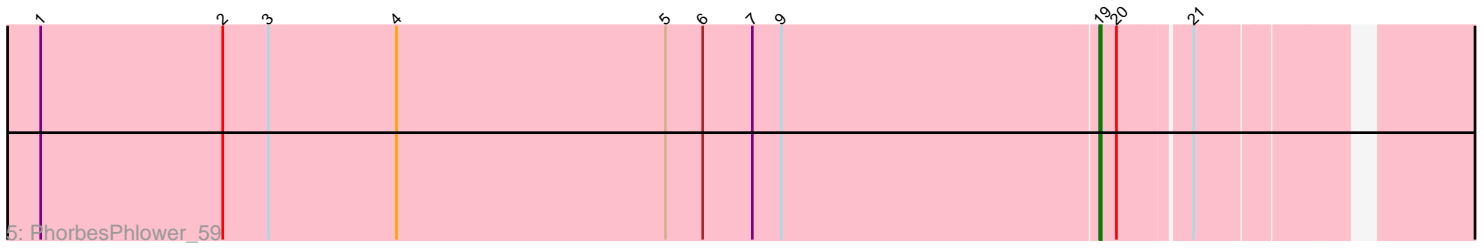
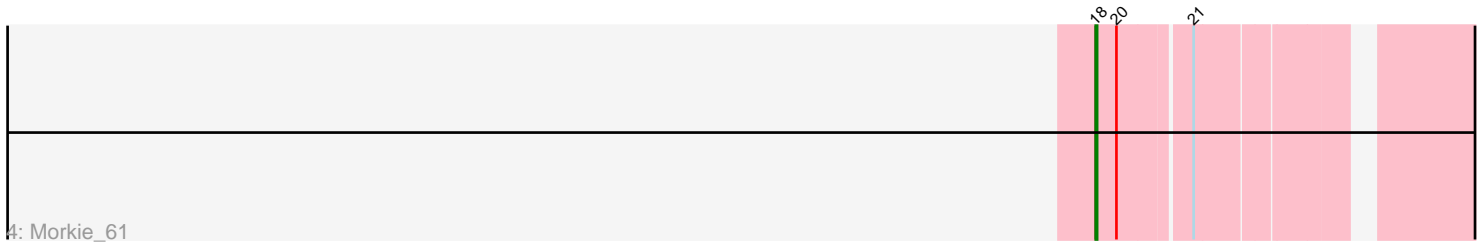
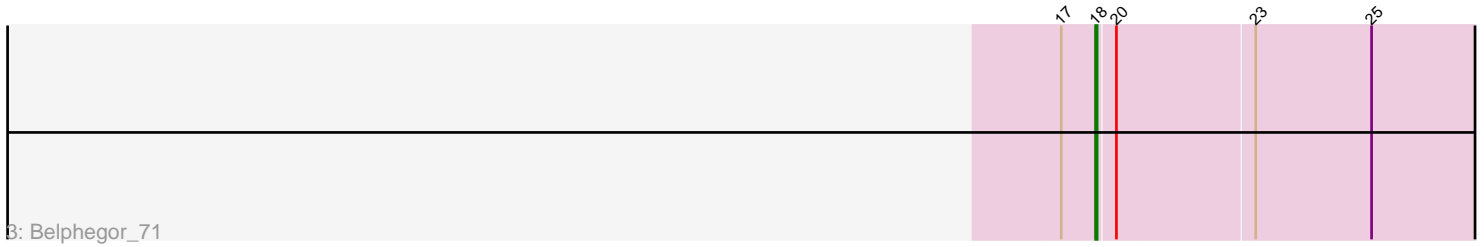
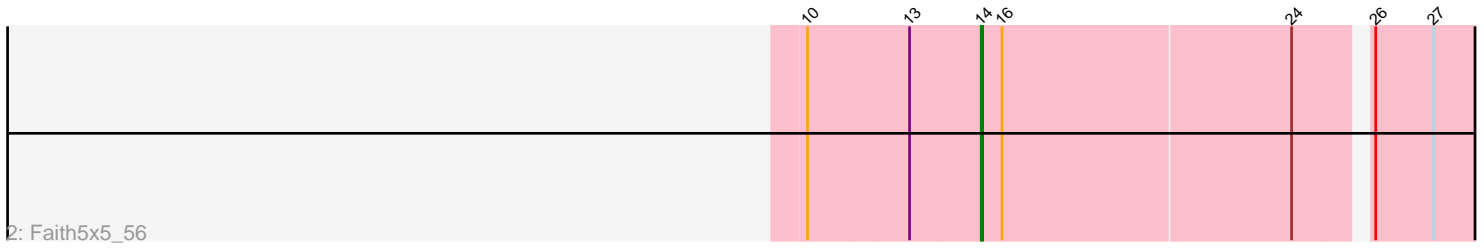
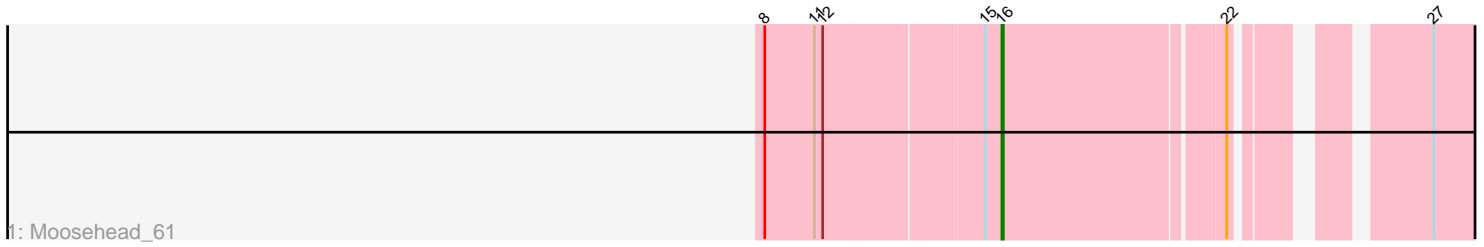


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 225261 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225261 has 6 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Moosehead\_61
- Track 2 : Faith5x5\_56
- Track 3 : Belphegor\_71
- Track 4 : Morkie\_61
- Track 5 : PhorbesPhlower\_59
- Track 6 : Squiddly\_81

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

The start number called the most often in the published annotations is 18, it was called in 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belphegor\_71, Morkie\_61, Squiddly\_81,

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

- 

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

- Faith5x5\_56, Moosehead\_61, PhorbesPhlower\_59,

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

Start 14:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faith5x5\_56 (CZ6),

Start 16:

- Found in 2 of 6 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Moosehead\_61 (CZ6),

Start 18:

- Found in 3 of 6 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belphegor\_71 (DE), Morkie\_61 (DH), Squiddly\_81 (DN2),

Start 19:

- Found in 1 of 6 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PhorbesPhlower\_59 (DH),

**Summary by clusters:**

There are 4 clusters represented in this pham: DE, CZ6, DH, DN2,

Info for manual annotations of cluster CZ6:

- Start number 14 was manually annotated 1 time for cluster CZ6.
- Start number 16 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DE:

- Start number 18 was manually annotated 1 time for cluster DE.

Info for manual annotations of cluster DH:

- Start number 18 was manually annotated 1 time for cluster DH.
- Start number 19 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN2:

- Start number 18 was manually annotated 1 time for cluster DN2.

**Gene Information:**

Gene: Belphegor\_71 Start: 54528, Stop: 54860, Start Num: 18

Candidate Starts for Belphegor\_71:

(17, 54504), (Start: 18 @54528 has 3 MA's), (20, 54540), (23, 54636), (25, 54720),

Gene: Faith5x5\_56 Start: 35249, Stop: 35653, Start Num: 14

Candidate Starts for Faith5x5\_56:

(10, 35126), (13, 35198), (Start: 14 @35249 has 1 MA's), (Start: 16 @35264 has 1 MA's), (24, 35471), (26, 35516), (27, 35558),

Gene: Moosehead\_61 Start: 35551, Stop: 35901, Start Num: 16

Candidate Starts for Moosehead\_61:

(8, 35386), (11, 35422), (12, 35428), (15, 35539), (Start: 16 @35551 has 1 MA's), (22, 35704), (27, 35809),

Gene: Morkie\_61 Start: 36828, Stop: 37127, Start Num: 18

Candidate Starts for Morkie\_61:

(Start: 18 @36828 has 3 MA's), (20, 36843), (21, 36891),

Gene: PhorbesPhlower\_59 Start: 36024, Stop: 36320, Start Num: 19

Candidate Starts for PhorbesPhlower\_59:

(1, 35259), (2, 35391), (3, 35424), (4, 35517), (5, 35712), (6, 35739), (7, 35775), (9, 35796), (Start: 19 @36024 has 1 MA's), (20, 36036), (21, 36084),

Gene: Squiddly\_81 Start: 49110, Stop: 49445, Start Num: 18

Candidate Starts for Squiddly\_81:

(Start: 18 @49110 has 3 MA's), (20, 49125), (23, 49221), (25, 49305), (26, 49308),