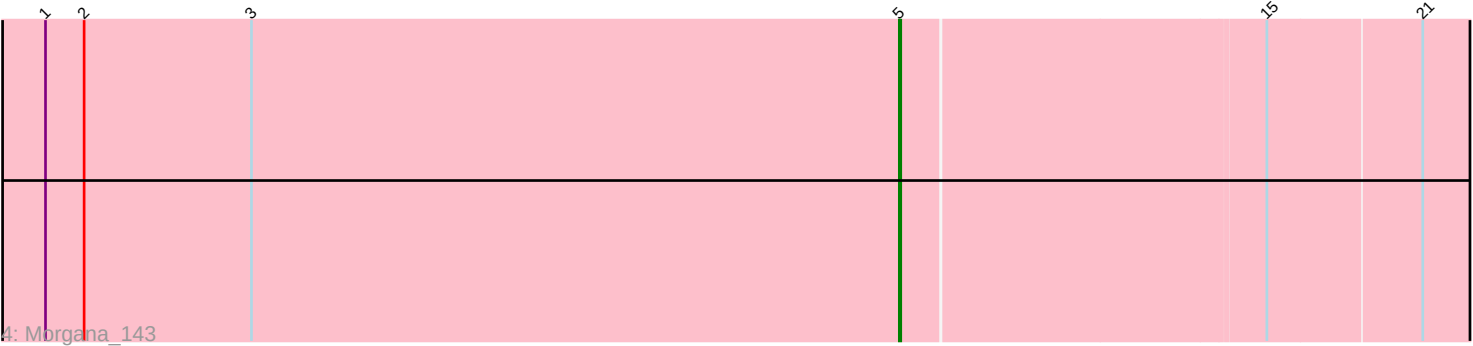
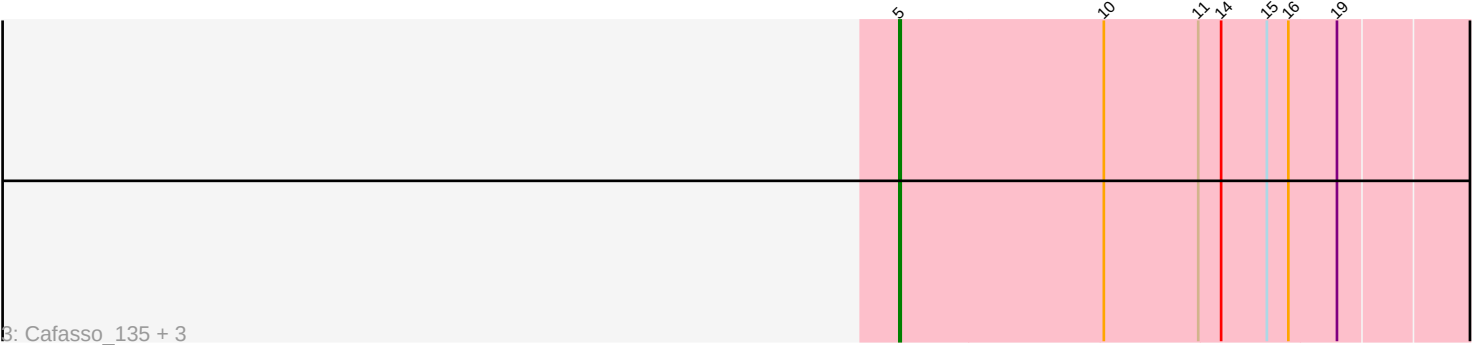
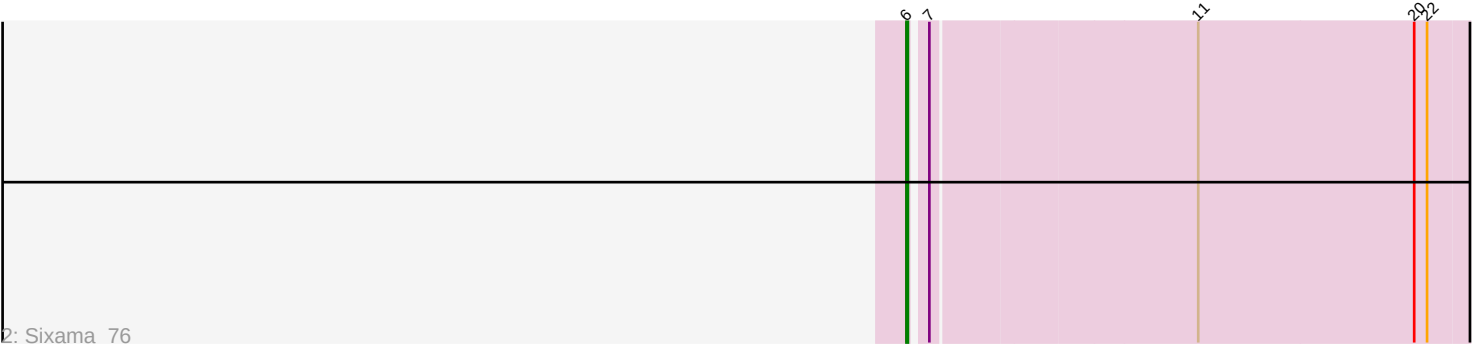
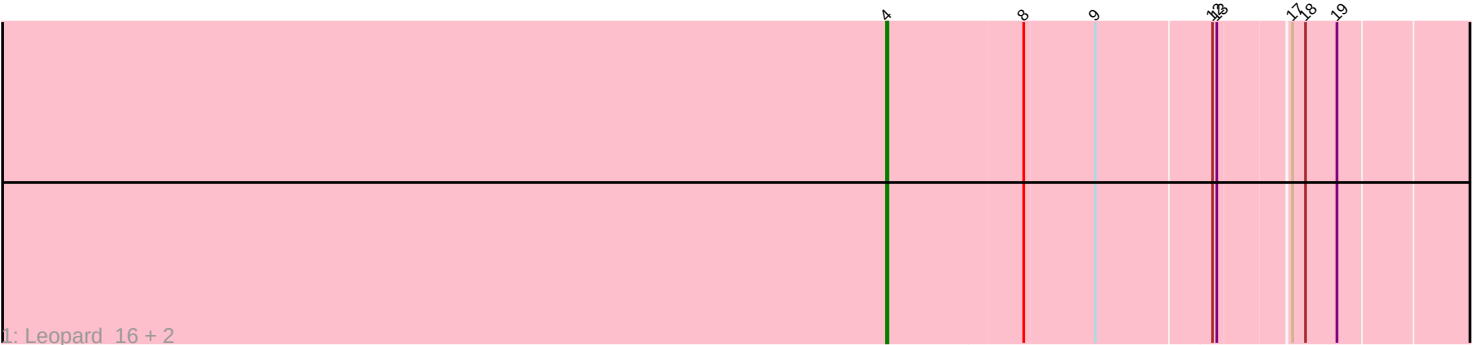




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 309819 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309819 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Leopard_16, Onyinye_17, Aikoy_16
- Track 2 : Sixama_76
- Track 3 : Cafasso_135, Aleemily_133, ModicumRichard_135, ObLaDi_134
- Track 4 : Morgana_143

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 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aleemily_133, Cafasso_135, ModicumRichard_135, Morgana_143, ObLaDi_134,

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

-

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

- Aikoy_16, Leopard_16, Onyinye_17, Sixama_76,

Summary by start number:

Start 4:

- Found in 3 of 9 (33.3%) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikoy_16 (AE), Leopard_16 (AE), Onyinye_17 (AE),

Start 5:

- Found in 5 of 9 (55.6%) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aleemily_133 (DZ), Cafasso_135 (DZ), ModicumRichard_135 (DZ), Morgana_143 (DZ), ObLaDi_134 (DZ),

Start 6:

- Found in 1 of 9 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sixama_76 (DS),

Summary by clusters:

There are 3 clusters represented in this pham: DZ, AE, DS,

Info for manual annotations of cluster AE:

- Start number 4 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster DS:

- Start number 6 was manually annotated 1 time for cluster DS.

Info for manual annotations of cluster DZ:

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

Gene Information:

Gene: Aikoy_16 Start: 9475, Stop: 9873, Start Num: 4

Candidate Starts for Aikoy_16:

(Start: 4 @9475 has 3 MA's), (8, 9568), (9, 9616), (12, 9694), (13, 9697), (17, 9742), (18, 9751), (19, 9772),

Gene: Aleemily_133 Start: 72676, Stop: 73089, Start Num: 5

Candidate Starts for Aleemily_133:

(Start: 5 @72676 has 5 MA's), (10, 72817), (11, 72883), (14, 72898), (15, 72928), (16, 72943), (19, 72976),

Gene: Cafasso_135 Start: 73283, Stop: 73696, Start Num: 5

Candidate Starts for Cafasso_135:

(Start: 5 @73283 has 5 MA's), (10, 73424), (11, 73490), (14, 73505), (15, 73535), (16, 73550), (19, 73583),

Gene: Leopard_16 Start: 9653, Stop: 10045, Start Num: 4

Candidate Starts for Leopard_16:

(Start: 4 @9653 has 3 MA's), (8, 9746), (9, 9794), (12, 9872), (13, 9875), (17, 9920), (18, 9929), (19, 9950),

Gene: ModicumRichard_135 Start: 73571, Stop: 73984, Start Num: 5

Candidate Starts for ModicumRichard_135:

(Start: 5 @73571 has 5 MA's), (10, 73712), (11, 73778), (14, 73793), (15, 73823), (16, 73838), (19, 73871),

Gene: Morgana_143 Start: 75079, Stop: 75483, Start Num: 5

Candidate Starts for Morgana_143:

(1, 74482), (2, 74509), (3, 74626), (Start: 5 @75079 has 5 MA's), (15, 75325), (21, 75430),

Gene: ObLaDi_134 Start: 72973, Stop: 73386, Start Num: 5

Candidate Starts for ObLaDi_134:

(Start: 5 @72973 has 5 MA's), (10, 73114), (11, 73180), (14, 73195), (15, 73225), (16, 73240), (19, 73273),

Gene: Onyinye_17 Start: 9641, Stop: 10039, Start Num: 4

Candidate Starts for Onyinye_17:

(Start: 4 @9641 has 3 MA's), (8, 9734), (9, 9782), (12, 9860), (13, 9863), (17, 9908), (18, 9917), (19, 9938),

Gene: Sixama_76 Start: 38215, Stop: 38589, Start Num: 6

Candidate Starts for Sixama_76:

(Start: 6 @38215 has 1 MA's), (7, 38224), (11, 38401), (20, 38551), (22, 38560),