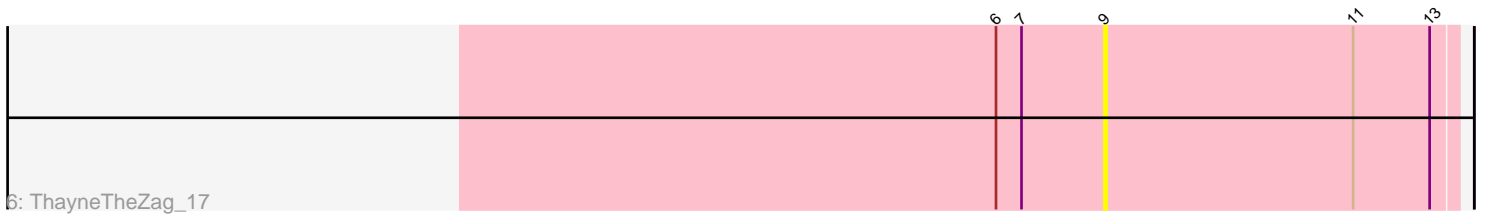
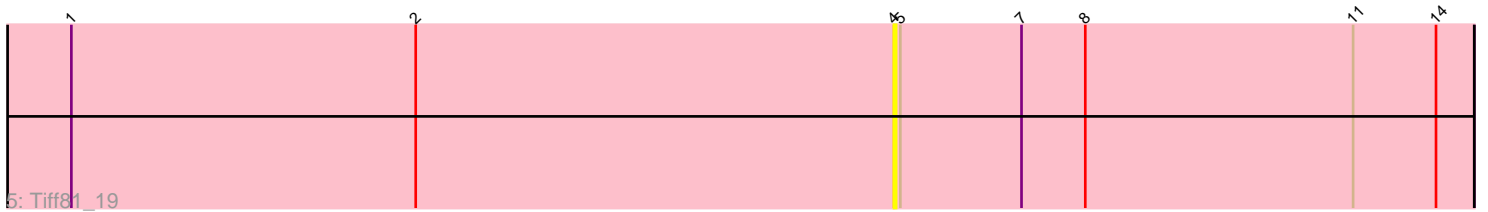
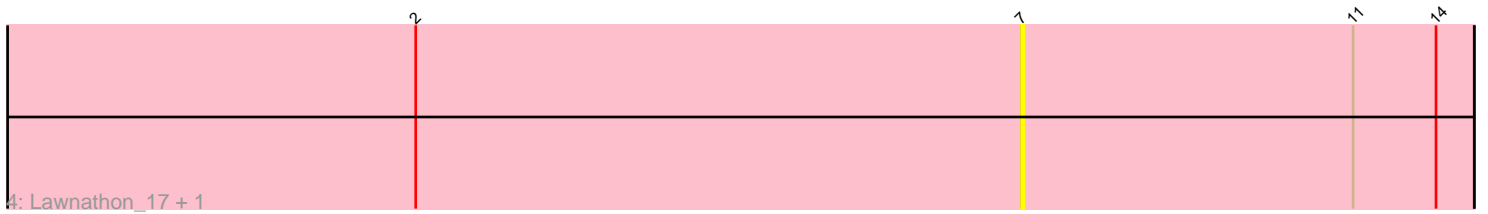
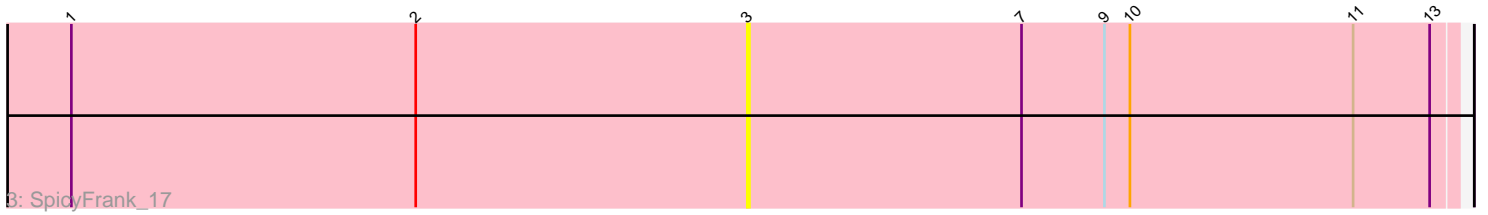
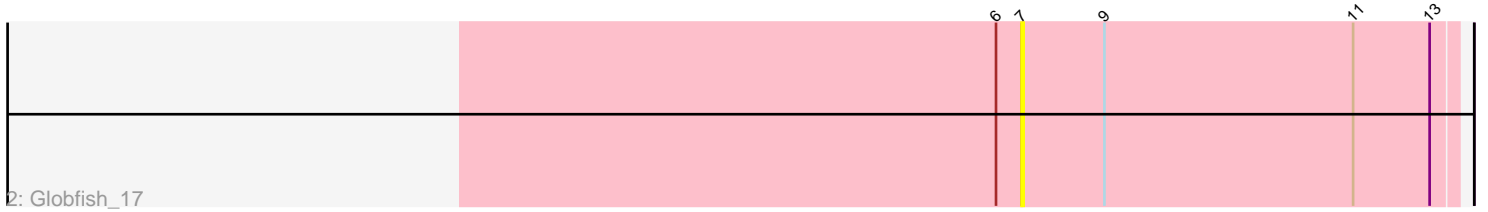
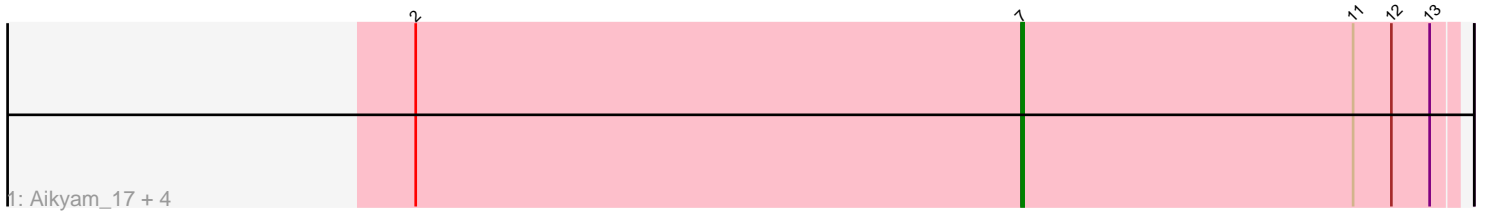


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 184156 Report

This analysis was run 11/02/24 on database version 579.

Pham number 184156 has 12 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Aikyam\_17, YoungHarleezy\_17, Gorpy\_17, CookieBear\_18, Hillester\_17
- Track 2 : Globfish\_17
- Track 3 : SpicyFrank\_17
- Track 4 : Lawnathon\_17, KayMoney\_16
- Track 5 : Tiff81\_19
- Track 6 : ThayneTheZag\_17
- Track 7 : Pucara\_16

### ***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 1 of the 1 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aikyam\_17, CookieBear\_18, Globfish\_17, Gorpy\_17, Hillester\_17, KayMoney\_16, Lawnathon\_17, YoungHarleezy\_17,

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

- Pucara\_16, SpicyFrank\_17, ThayneTheZag\_17, Tiff81\_19,

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

- 

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

Start 3:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SpicyFrank\_17 (AY),

Start 4:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tiff81\_19 (AY),

Start 5:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Pucara\_16 (FA),

Start 7:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 1
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Aikyam\_17 (AY), CookieBear\_18 (AY), Globfish\_17 (AY), Gorpy\_17 (AY), Hillester\_17 (AY), KayMoney\_16 (FA), Lawnathon\_17 (AY), YoungHarleezy\_17 (AY),

Start 9:

- Found in 3 of 12 ( 25.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: ThayneTheZag\_17 (AY),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AY, FA,

Info for manual annotations of cluster AY:

- Start number 7 was manually annotated 1 time for cluster AY.

### ***Gene Information:***

Gene: Aikyam\_17 Start: 10332, Stop: 10535, Start Num: 7

Candidate Starts for Aikyam\_17:

(2, 10047), (Start: 7 @10332 has 1 MA's), (11, 10488), (12, 10506), (13, 10524),

Gene: CookieBear\_18 Start: 10331, Stop: 10534, Start Num: 7

Candidate Starts for CookieBear\_18:

(2, 10046), (Start: 7 @10331 has 1 MA's), (11, 10487), (12, 10505), (13, 10523),

Gene: Globfish\_17 Start: 10405, Stop: 10608, Start Num: 7

Candidate Starts for Globfish\_17:

(6, 10393), (Start: 7 @10405 has 1 MA's), (9, 10444), (11, 10561), (13, 10597),

Gene: Gorpy\_17 Start: 10340, Stop: 10543, Start Num: 7

Candidate Starts for Gorpy\_17:

(2, 10055), (Start: 7 @10340 has 1 MA's), (11, 10496), (12, 10514), (13, 10532),

Gene: Hillester\_17 Start: 10331, Stop: 10534, Start Num: 7

Candidate Starts for Hillester\_17:

(2, 10046), (Start: 7 @10331 has 1 MA's), (11, 10487), (12, 10505), (13, 10523),

Gene: KayMoney\_16 Start: 10454, Stop: 10666, Start Num: 7

Candidate Starts for KayMoney\_16:

(2, 10169), (Start: 7 @10454 has 1 MA's), (11, 10610), (14, 10649),

Gene: Lawnathon\_17 Start: 10479, Stop: 10691, Start Num: 7

Candidate Starts for Lawnathon\_17:

(2, 10194), (Start: 7 @10479 has 1 MA's), (11, 10635), (14, 10674),

Gene: Pucara\_16 Start: 10404, Stop: 10673, Start Num: 5

Candidate Starts for Pucara\_16:

(1, 10014), (2, 10176), (5, 10404), (Start: 7 @10461 has 1 MA's), (8, 10491), (10, 10512), (11, 10617), (14, 10656),

Gene: SpicyFrank\_17 Start: 10279, Stop: 10611, Start Num: 3

Candidate Starts for SpicyFrank\_17:

(1, 9961), (2, 10123), (3, 10279), (Start: 7 @10408 has 1 MA's), (9, 10447), (10, 10459), (11, 10564), (13, 10600),

Gene: ThayneTheZag\_17 Start: 10445, Stop: 10609, Start Num: 9

Candidate Starts for ThayneTheZag\_17:

(6, 10394), (Start: 7 @10406 has 1 MA's), (9, 10445), (11, 10562), (13, 10598),

Gene: Tiff81\_19 Start: 10495, Stop: 10767, Start Num: 4

Candidate Starts for Tiff81\_19:

(1, 10108), (2, 10270), (4, 10495), (5, 10498), (Start: 7 @10555 has 1 MA's), (8, 10585), (11, 10711), (14, 10750),

Gene: YoungHarleezy\_17 Start: 10344, Stop: 10547, Start Num: 7

Candidate Starts for YoungHarleezy\_17:

(2, 10059), (Start: 7 @10344 has 1 MA's), (11, 10500), (12, 10518), (13, 10536),