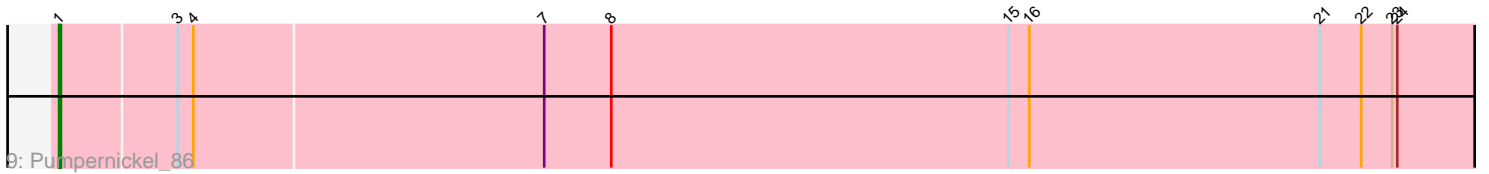
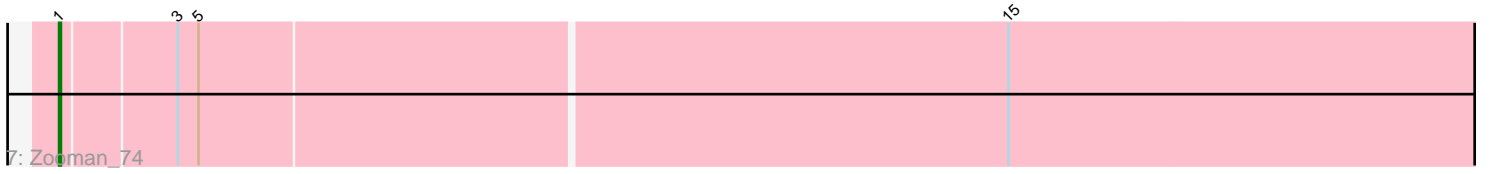
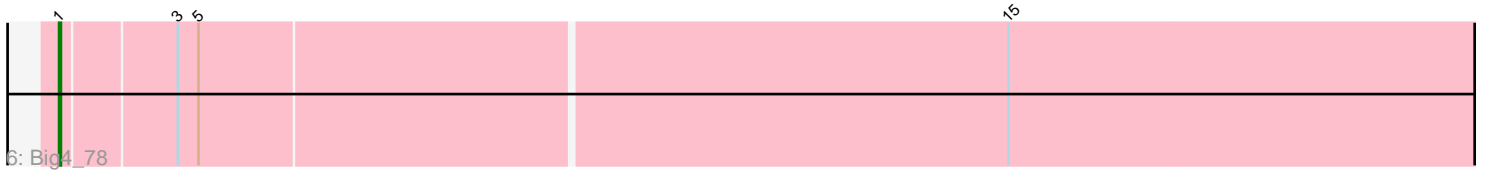
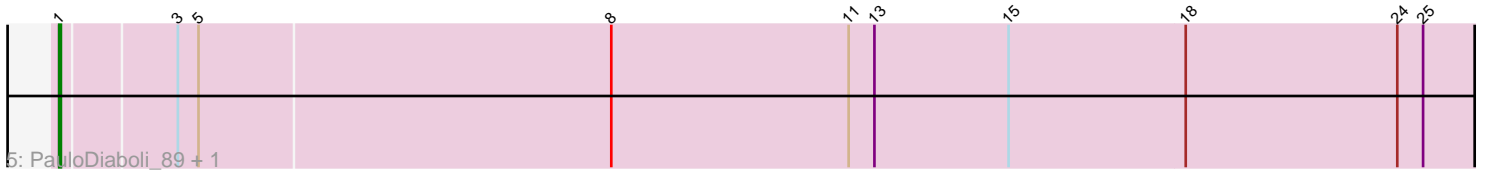
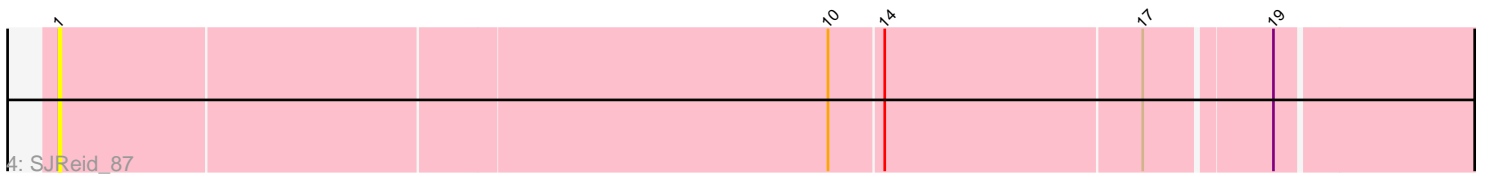
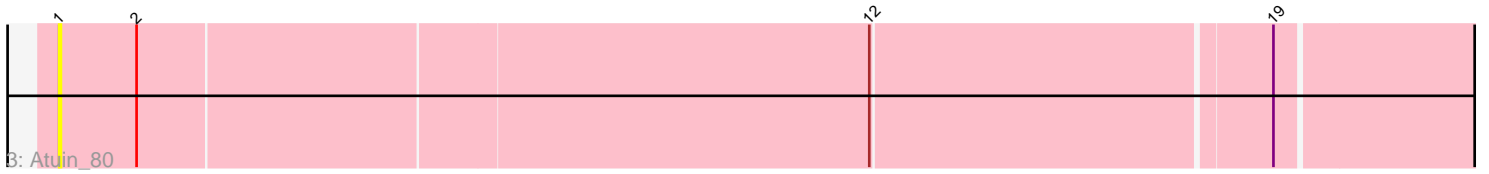
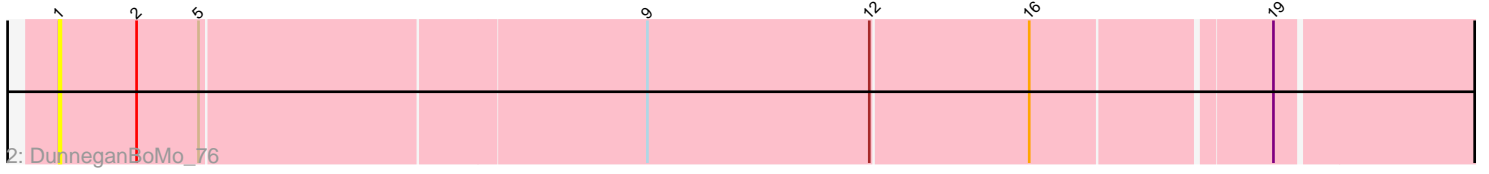
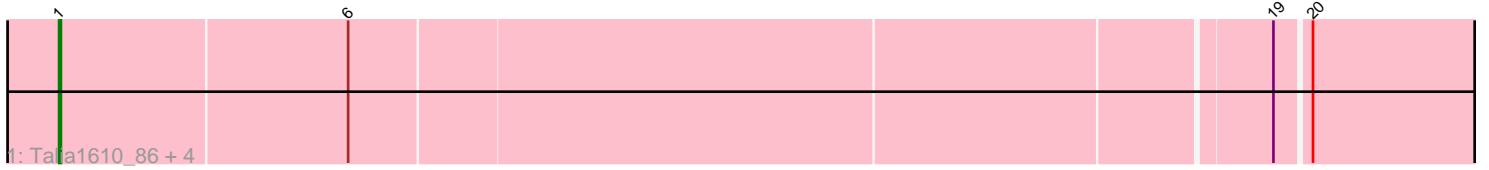


Pham 159499



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 159499 Report

This analysis was run 04/28/24 on database version 559.

Pham number 159499 has 14 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Talia1610\_86, Bloom\_86, Patbob\_83, Racecar\_83, Mimi\_89
- Track 2 : DunneganBoMo\_76
- Track 3 : Atuin\_80
- Track 4 : SJReid\_87
- Track 5 : PauloDiaboli\_89, A3Wally\_89
- Track 6 : Big4\_78
- Track 7 : Zooman\_74
- Track 8 : Cece\_72
- Track 9 : Pumpernickel\_86

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally\_89, Atuin\_80, Big4\_78, Bloom\_86, Cece\_72, DunneganBoMo\_76, Mimi\_89, Patbob\_83, PauloDiaboli\_89, Pumpernickel\_86, Racecar\_83, SJReid\_87, Talia1610\_86, Zooman\_74,

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

- 

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

- 

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

Start 1:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally\_89 (GD1), Atuin\_80 (FC), Big4\_78 (GD2), Bloom\_86 (FC), Cece\_72 (GD3), DunneganBoMo\_76 (FC), Mimi\_89

(FC), Patbob\_83 (FC), PauloDiaboli\_89 (GD1), Pumpernickel\_86 (GD4), Racecar\_83 (FC), SJReid\_87 (FC), Talia1610\_86 (FC), Zooman\_74 (GD2),

### **Summary by clusters:**

There are 5 clusters represented in this pham: GD3, GD1, GD2, FC, GD4,

Info for manual annotations of cluster FC:

- Start number 1 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GD1:

- Start number 1 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 1 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 1 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 1 was manually annotated 1 time for cluster GD4.

### **Gene Information:**

Gene: A3Wally\_89 Start: 46992, Stop: 47873, Start Num: 1

Candidate Starts for A3Wally\_89:

(Start: 1 @46992 has 7 MA's), (3, 47055), (5, 47067), (8, 47304), (11, 47442), (13, 47457), (15, 47535), (18, 47637), (24, 47760), (25, 47775),

Gene: Atuin\_80 Start: 48877, Stop: 49749, Start Num: 1

Candidate Starts for Atuin\_80:

(Start: 1 @48877 has 7 MA's), (2, 48922), (12, 49339), (19, 49564),

Gene: Big4\_78 Start: 45834, Stop: 46709, Start Num: 1

Candidate Starts for Big4\_78:

(Start: 1 @45834 has 7 MA's), (3, 45897), (5, 45909), (15, 46371),

Gene: Bloom\_86 Start: 50280, Stop: 51149, Start Num: 1

Candidate Starts for Bloom\_86:

(Start: 1 @50280 has 7 MA's), (6, 50445), (19, 50964), (20, 50982),

Gene: Cece\_72 Start: 41904, Stop: 42782, Start Num: 1

Candidate Starts for Cece\_72:

(Start: 1 @41904 has 7 MA's), (3, 41967), (5, 41979), (15, 42444), (16, 42456), (21, 42624),

Gene: DunneganBoMo\_76 Start: 45738, Stop: 46607, Start Num: 1

Candidate Starts for DunneganBoMo\_76:

(Start: 1 @45738 has 7 MA's), (2, 45783), (5, 45819), (9, 46071), (12, 46200), (16, 46290), (19, 46422),

Gene: Mimi\_89 Start: 49627, Stop: 50496, Start Num: 1

Candidate Starts for Mimi\_89:

(Start: 1 @49627 has 7 MA's), (6, 49792), (19, 50311), (20, 50329),

Gene: Patbob\_83 Start: 50499, Stop: 51368, Start Num: 1

Candidate Starts for Patbob\_83:

(Start: 1 @50499 has 7 MA's), (6, 50664), (19, 51183), (20, 51201),

Gene: PauloDiaboli\_89 Start: 46349, Stop: 47230, Start Num: 1

Candidate Starts for PauloDiaboli\_89:

(Start: 1 @46349 has 7 MA's), (3, 46412), (5, 46424), (8, 46661), (11, 46799), (13, 46814), (15, 46892), (18, 46994), (24, 47117), (25, 47132),

Gene: Pumpernickel\_86 Start: 47559, Stop: 48443, Start Num: 1

Candidate Starts for Pumpernickel\_86:

(Start: 1 @47559 has 7 MA's), (3, 47625), (4, 47634), (7, 47835), (8, 47874), (15, 48105), (16, 48117), (21, 48285), (22, 48309), (23, 48327), (24, 48330),

Gene: Racecar\_83 Start: 50280, Stop: 51149, Start Num: 1

Candidate Starts for Racecar\_83:

(Start: 1 @50280 has 7 MA's), (6, 50445), (19, 50964), (20, 50982),

Gene: SJReid\_87 Start: 51543, Stop: 52412, Start Num: 1

Candidate Starts for SJReid\_87:

(Start: 1 @51543 has 7 MA's), (10, 51981), (14, 52011), (17, 52158), (19, 52227),

Gene: Talia1610\_86 Start: 49645, Stop: 50514, Start Num: 1

Candidate Starts for Talia1610\_86:

(Start: 1 @49645 has 7 MA's), (6, 49810), (19, 50329), (20, 50347),

Gene: Zooman\_74 Start: 44530, Stop: 45405, Start Num: 1

Candidate Starts for Zooman\_74:

(Start: 1 @44530 has 7 MA's), (3, 44593), (5, 44605), (15, 45067),