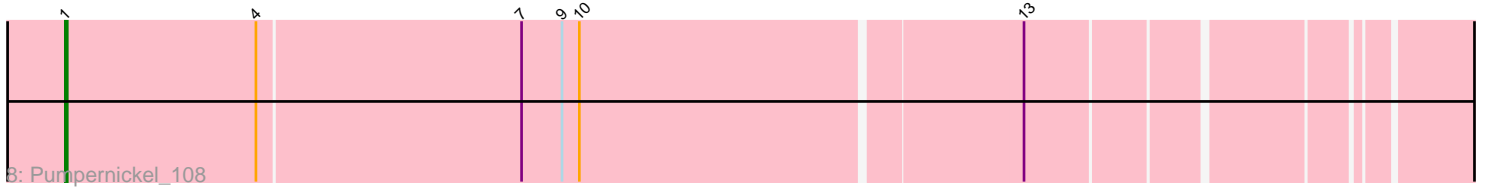
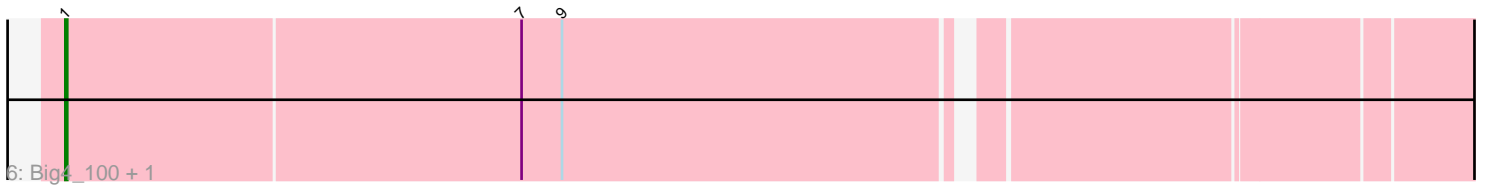
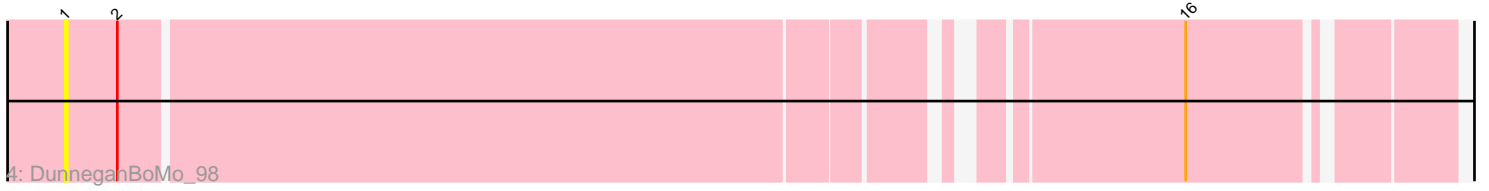
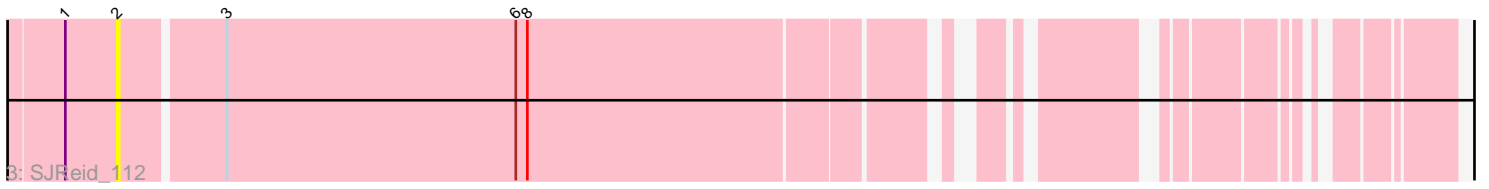
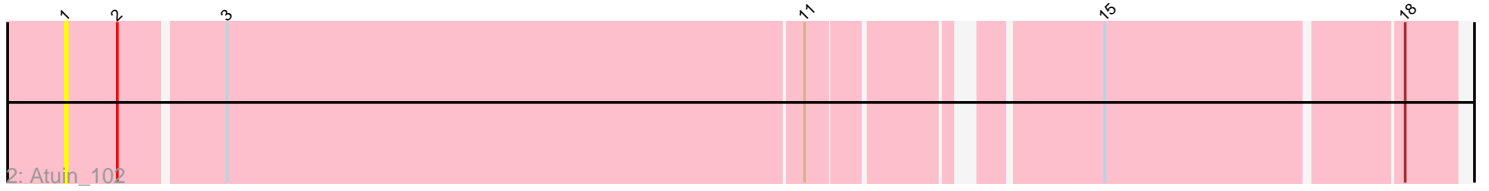
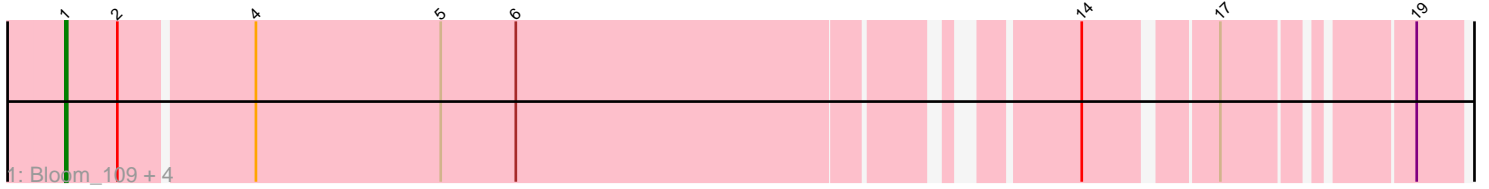


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 158271 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158271 has 14 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Bloom\_109, Racecar\_106, Patbob\_106, Talia1610\_107, Mimi\_111
- Track 2 : Atuin\_102
- Track 3 : SJReid\_112
- Track 4 : DunneganBoMo\_98
- Track 5 : A3Wally\_111, PauloDiaboli\_111
- Track 6 : Big4\_100, Zooman\_95
- Track 7 : Cece\_94
- Track 8 : Pumpnickel\_108

### ***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\_111, Atuin\_102, Big4\_100, Bloom\_109, Cece\_94, DunneganBoMo\_98, Mimi\_111, Patbob\_106, PauloDiaboli\_111, Pumpnickel\_108, Racecar\_106, Talia1610\_107, Zooman\_95,

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

- SJReid\_112,

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 92.9% of time when present
- Phage (with cluster) where this start called: A3Wally\_111 (GD1), Atuin\_102 (FC), Big4\_100 (GD2), Bloom\_109 (FC), Cece\_94 (GD3), DunneganBoMo\_98 (FC), Mimi\_111 (FC), Patbob\_106 (FC), PauloDiaboli\_111 (GD1), Pumpnickel\_108

(GD4), Racecar\_106 (FC), Talia1610\_107 (FC), Zooman\_95 (GD2),

Start 2:

- Found in 8 of 14 ( 57.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: SJReid\_112 (FC),

### **Summary by clusters:**

There are 5 clusters represented in this pham: FC, GD1, GD2, GD3, 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\_111 Start: 75589, Stop: 74876, Start Num: 1

Candidate Starts for A3Wally\_111:

(Start: 1 @75589 has 7 MA's), (7, 75355), (9, 75334), (12, 75127),

Gene: Atuin\_102 Start: 85221, Stop: 85898, Start Num: 1

Candidate Starts for Atuin\_102:

(Start: 1 @85221 has 7 MA's), (2, 85248), (3, 85299), (11, 85596), (15, 85725), (18, 85872),

Gene: Big4\_100 Start: 74707, Stop: 74009, Start Num: 1

Candidate Starts for Big4\_100:

(Start: 1 @74707 has 7 MA's), (7, 74473), (9, 74452),

Gene: Bloom\_109 Start: 85355, Stop: 86011, Start Num: 1

Candidate Starts for Bloom\_109:

(Start: 1 @85355 has 7 MA's), (2, 85382), (4, 85448), (5, 85544), (6, 85583), (14, 85844), (17, 85904), (19, 85988),

Gene: Cece\_94 Start: 77750, Stop: 77037, Start Num: 1

Candidate Starts for Cece\_94:

(Start: 1 @77750 has 7 MA's), (5, 77558), (7, 77516), (9, 77495),

Gene: DunneganBoMo\_98 Start: 81122, Stop: 81781, Start Num: 1

Candidate Starts for DunneganBoMo\_98:  
(Start: 1 @81122 has 7 MA's), (2, 81149), (16, 81659),

Gene: Mimi\_111 Start: 84702, Stop: 85358, Start Num: 1  
Candidate Starts for Mimi\_111:  
(Start: 1 @84702 has 7 MA's), (2, 84729), (4, 84795), (5, 84891), (6, 84930), (14, 85191), (17, 85251),  
(19, 85335),

Gene: Patbob\_106 Start: 85437, Stop: 86093, Start Num: 1  
Candidate Starts for Patbob\_106:  
(Start: 1 @85437 has 7 MA's), (2, 85464), (4, 85530), (5, 85626), (6, 85665), (14, 85926), (17, 85986),  
(19, 86070),

Gene: PauloDiaboli\_111 Start: 74946, Stop: 74233, Start Num: 1  
Candidate Starts for PauloDiaboli\_111:  
(Start: 1 @74946 has 7 MA's), (7, 74712), (9, 74691), (12, 74484),

Gene: Pumpernickel\_108 Start: 76513, Stop: 75818, Start Num: 1  
Candidate Starts for Pumpernickel\_108:  
(Start: 1 @76513 has 7 MA's), (4, 76414), (7, 76279), (9, 76258), (10, 76249), (13, 76027),

Gene: Racecar\_106 Start: 85355, Stop: 86011, Start Num: 1  
Candidate Starts for Racecar\_106:  
(Start: 1 @85355 has 7 MA's), (2, 85382), (4, 85448), (5, 85544), (6, 85583), (14, 85844), (17, 85904),  
(19, 85988),

Gene: SJReid\_112 Start: 77654, Stop: 78247, Start Num: 2  
Candidate Starts for SJReid\_112:  
(Start: 1 @77627 has 7 MA's), (2, 77654), (3, 77705), (6, 77855), (8, 77861),

Gene: Talia1610\_107 Start: 84720, Stop: 85376, Start Num: 1  
Candidate Starts for Talia1610\_107:  
(Start: 1 @84720 has 7 MA's), (2, 84747), (4, 84813), (5, 84909), (6, 84948), (14, 85209), (17, 85269),  
(19, 85353),

Gene: Zooman\_95 Start: 72552, Stop: 71857, Start Num: 1  
Candidate Starts for Zooman\_95:  
(Start: 1 @72552 has 7 MA's), (7, 72318), (9, 72297),