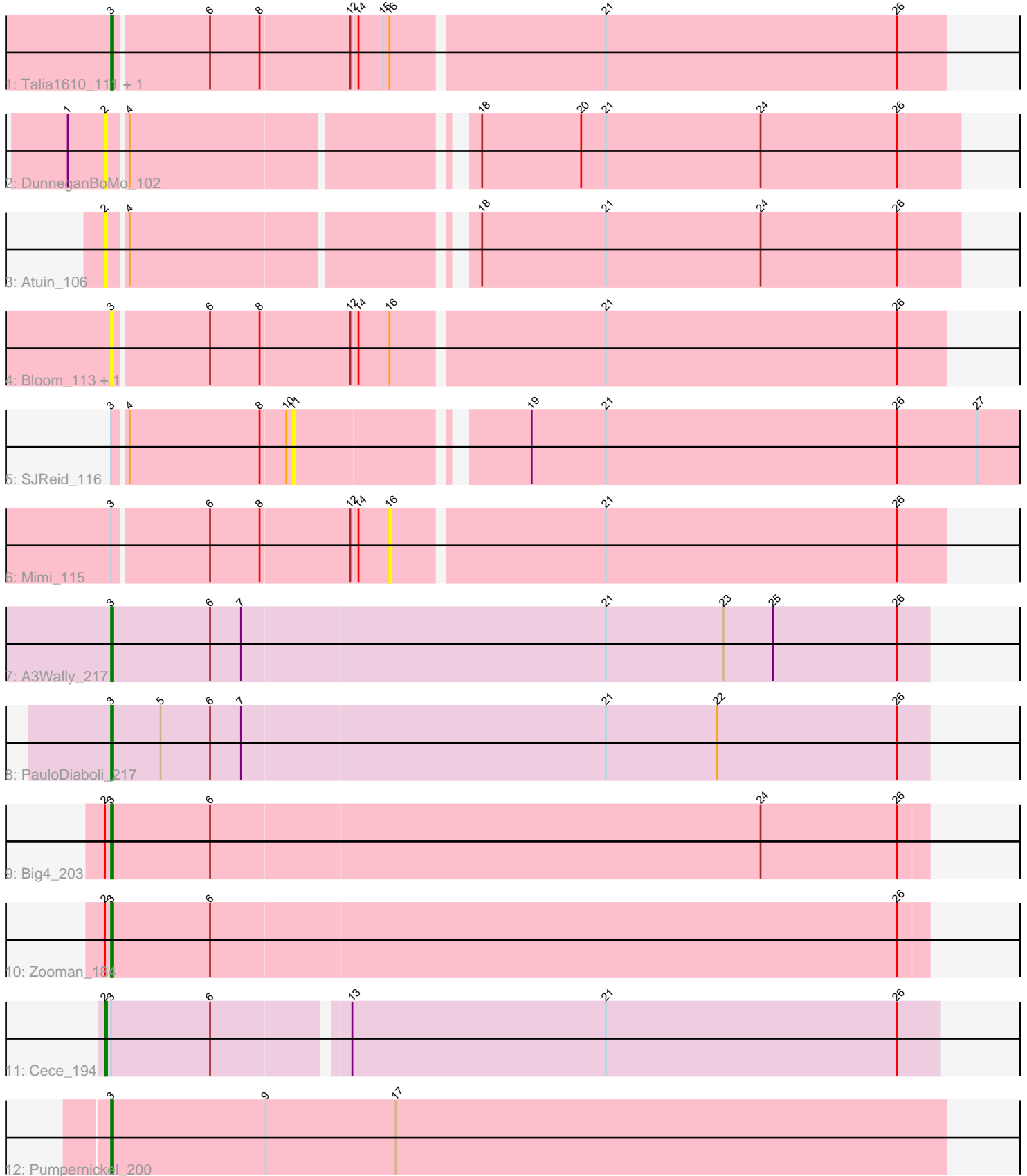


# Pham 132553



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 132553 Report

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

Pham number 132553 has 14 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Talia1610\_111, Racecar\_110
- Track 2 : DunneganBoMo\_102
- Track 3 : Atuin\_106
- Track 4 : Bloom\_113, Patbob\_110
- Track 5 : SJReid\_116
- Track 6 : Mimi\_115
- Track 7 : A3Wally\_217
- Track 8 : PauloDiaboli\_217
- Track 9 : Big4\_203
- Track 10 : Zooman\_184
- Track 11 : Cece\_194
- Track 12 : Pumpernickel\_200

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

The start number called the most often in the published annotations is 3, it was called in 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally\_217, Big4\_203, Bloom\_113, Patbob\_110, PauloDiaboli\_217, Pumpernickel\_200, Racecar\_110, Talia1610\_111, Zooman\_184,

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

- Cece\_194, Mimi\_115, SJReid\_116,

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

- Atuin\_106, DunneganBoMo\_102,

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

Start 2:

- Found in 5 of 14 ( 35.7% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 60.0% of time when present

- Phage (with cluster) where this start called: Atuin\_106 (FC), Cece\_194 (GD3), DunneganBoMo\_102 (FC),

Start 3:

- Found in 12 of 14 ( 85.7% ) of genes in pham
- Manual Annotations of this start: 6 of 7
- Called 75.0% of time when present
- Phage (with cluster) where this start called: A3Wally\_217 (GD1), Big4\_203 (GD2), Bloom\_113 (FC), Patbob\_110 (FC), PauloDiaboli\_217 (GD1), Pumpernickel\_200 (GD4), Racecar\_110 (FC), Talia1610\_111 (FC), Zooman\_184 (GD2),

Start 11:

- Found in 1 of 14 ( 7.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SJReid\_116 (FC),

Start 16:

- Found in 5 of 14 ( 35.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Mimi\_115 (FC),

### **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 3 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GD1:

- Start number 3 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 3 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 2 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 3 was manually annotated 1 time for cluster GD4.

### **Gene Information:**

Gene: A3Wally\_217 Start: 118051, Stop: 117659, Start Num: 3

Candidate Starts for A3Wally\_217:

(Start: 3 @118051 has 6 MA's), (6, 118003), (7, 117988), (21, 117814), (23, 117757), (25, 117733), (26, 117673),

Gene: Atuin\_106 Start: 87322, Stop: 87711, Start Num: 2

Candidate Starts for Atuin\_106:

(Start: 2 @87322 has 1 MA's), (4, 87331), (18, 87481), (21, 87541), (24, 87616), (26, 87682),

Gene: Big4\_203 Start: 114459, Stop: 114067, Start Num: 3

Candidate Starts for Big4\_203:

(Start: 2 @114462 has 1 MA's), (Start: 3 @114459 has 6 MA's), (6, 114411), (24, 114147), (26, 114081),

Gene: Bloom\_113 Start: 87385, Stop: 87777, Start Num: 3

Candidate Starts for Bloom\_113:

(Start: 3 @87385 has 6 MA's), (6, 87430), (8, 87454), (12, 87496), (14, 87499), (16, 87514), (21, 87613), (26, 87754),

Gene: Cece\_194 Start: 118974, Stop: 118579, Start Num: 2

Candidate Starts for Cece\_194:

(Start: 2 @118974 has 1 MA's), (Start: 3 @118971 has 6 MA's), (6, 118923), (13, 118863), (21, 118740), (26, 118599),

Gene: DunneganBoMo\_102 Start: 83192, Stop: 83581, Start Num: 2

Candidate Starts for DunneganBoMo\_102:

(1, 83174), (Start: 2 @83192 has 1 MA's), (4, 83201), (18, 83351), (20, 83399), (21, 83411), (24, 83486), (26, 83552),

Gene: Mimi\_115 Start: 86861, Stop: 87124, Start Num: 16

Candidate Starts for Mimi\_115:

(Start: 3 @86732 has 6 MA's), (6, 86777), (8, 86801), (12, 86843), (14, 86846), (16, 86861), (21, 86960), (26, 87101),

Gene: Patbob\_110 Start: 87467, Stop: 87859, Start Num: 3

Candidate Starts for Patbob\_110:

(Start: 3 @87467 has 6 MA's), (6, 87512), (8, 87536), (12, 87578), (14, 87581), (16, 87596), (21, 87695), (26, 87836),

Gene: PauloDiaboli\_217 Start: 116264, Stop: 115872, Start Num: 3

Candidate Starts for PauloDiaboli\_217:

(Start: 3 @116264 has 6 MA's), (5, 116240), (6, 116216), (7, 116201), (21, 116027), (22, 115973), (26, 115886),

Gene: Pumpernickel\_200 Start: 115630, Stop: 115226, Start Num: 3

Candidate Starts for Pumpernickel\_200:

(Start: 3 @115630 has 6 MA's), (9, 115555), (17, 115492),

Gene: Racecar\_110 Start: 87385, Stop: 87777, Start Num: 3

Candidate Starts for Racecar\_110:

(Start: 3 @87385 has 6 MA's), (6, 87430), (8, 87454), (12, 87496), (14, 87499), (15, 87511), (16, 87514), (21, 87613), (26, 87754),

Gene: SJReid\_116 Start: 79721, Stop: 80056, Start Num: 11

Candidate Starts for SJReid\_116:

(Start: 3 @79637 has 6 MA's), (4, 79643), (8, 79706), (10, 79718), (11, 79721), (19, 79820), (21, 79856), (26, 79997), (27, 80036),

Gene: Talia1610\_111 Start: 86751, Stop: 87143, Start Num: 3

Candidate Starts for Talia1610\_111:

(Start: 3 @86751 has 6 MA's), (6, 86796), (8, 86820), (12, 86862), (14, 86865), (15, 86877), (16, 86880), (21, 86979), (26, 87120),

Gene: Zooman\_184 Start: 110682, Stop: 110290, Start Num: 3

Candidate Starts for Zooman\_184:

(Start: 2 @110685 has 1 MA's), (Start: 3 @110682 has 6 MA's), (6, 110634), (26, 110304),