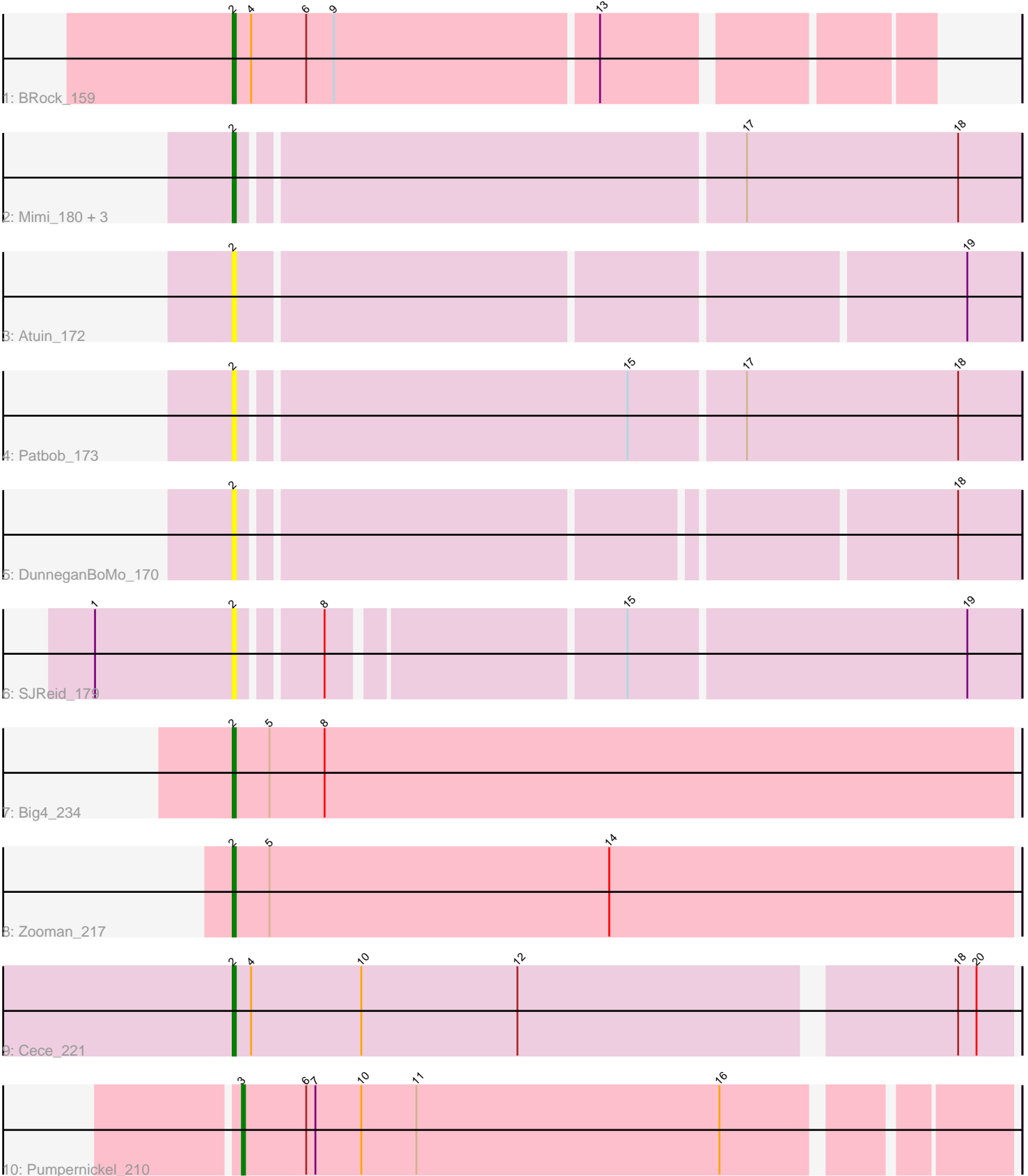


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 153648 Report

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

Pham number 153648 has 13 members, 7 are drafts.

Phages represented in each track:

- Track 1 : BRock\_159
- Track 2 : Mimi\_180, Bloom\_178, Racecar\_175, Talia1610\_177
- Track 3 : Atuin\_172
- Track 4 : Patbob\_173
- Track 5 : DunneganBoMo\_170
- Track 6 : SJReid\_179
- Track 7 : Big4\_234
- Track 8 : Zooman\_217
- Track 9 : Cece\_221
- Track 10 : Pumpernickel\_210

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

The start number called the most often in the published annotations is 2, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Atuin\_172, BRock\_159, Big4\_234, Bloom\_178, Cece\_221, DunneganBoMo\_170, Mimi\_180, Patbob\_173, Racecar\_175, SJReid\_179, Talia1610\_177, Zooman\_217,

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

- 

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

- Pumpernickel\_210,

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

Start 2:

- Found in 12 of 13 ( 92.3% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin\_172 (FC), BRock\_159 (BS), Big4\_234 (GD2), Bloom\_178 (FC), Cece\_221 (GD3), DunneganBoMo\_170 (FC),

Mimi\_180 (FC), Patbob\_173 (FC), Racecar\_175 (FC), SJReid\_179 (FC), Talia1610\_177 (FC), Zooman\_217 (GD2),

Start 3:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pumpernickel\_210 (GD4),

### **Summary by clusters:**

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

Info for manual annotations of cluster BS:

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

Info for manual annotations of cluster FC:

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

Info for manual annotations of cluster GD2:

- Start number 2 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: Atuin\_172 Start: 115133, Stop: 115378, Start Num: 2

Candidate Starts for Atuin\_172:

(Start: 2 @115133 has 5 MA's), (19, 115361),

Gene: BRock\_159 Start: 83813, Stop: 84028, Start Num: 2

Candidate Starts for BRock\_159:

(Start: 2 @83813 has 5 MA's), (4, 83819), (6, 83837), (9, 83846), (13, 83930),

Gene: Big4\_234 Start: 134767, Stop: 135021, Start Num: 2

Candidate Starts for Big4\_234:

(Start: 2 @134767 has 5 MA's), (5, 134779), (8, 134797),

Gene: Bloom\_178 Start: 115695, Stop: 115943, Start Num: 2

Candidate Starts for Bloom\_178:

(Start: 2 @115695 has 5 MA's), (17, 115854), (18, 115923),

Gene: Cece\_221 Start: 135065, Stop: 135310, Start Num: 2

Candidate Starts for Cece\_221:

(Start: 2 @135065 has 5 MA's), (4, 135071), (10, 135107), (12, 135158), (18, 135293), (20, 135299),

Gene: DunneganBoMo\_170 Start: 111926, Stop: 112165, Start Num: 2

Candidate Starts for DunneganBoMo\_170:  
(Start: 2 @111926 has 5 MA's), (18, 112145),

Gene: Mimi\_180 Start: 115322, Stop: 115570, Start Num: 2  
Candidate Starts for Mimi\_180:  
(Start: 2 @115322 has 5 MA's), (17, 115481), (18, 115550),

Gene: Patbob\_173 Start: 115878, Stop: 116126, Start Num: 2  
Candidate Starts for Patbob\_173:  
(Start: 2 @115878 has 5 MA's), (15, 116001), (17, 116037), (18, 116106),

Gene: Pumpernickel\_210 Start: 119677, Stop: 119916, Start Num: 3  
Candidate Starts for Pumpernickel\_210:  
(Start: 3 @119677 has 1 MA's), (6, 119698), (7, 119701), (10, 119716), (11, 119734), (16, 119833),

Gene: Racecar\_175 Start: 116288, Stop: 116536, Start Num: 2  
Candidate Starts for Racecar\_175:  
(Start: 2 @116288 has 5 MA's), (17, 116447), (18, 116516),

Gene: SJReid\_179 Start: 106598, Stop: 106837, Start Num: 2  
Candidate Starts for SJReid\_179:  
(1, 106556), (Start: 2 @106598 has 5 MA's), (8, 106622), (15, 106712), (19, 106820),

Gene: Talia1610\_177 Start: 115699, Stop: 115947, Start Num: 2  
Candidate Starts for Talia1610\_177:  
(Start: 2 @115699 has 5 MA's), (17, 115858), (18, 115927),

Gene: Zooman\_217 Start: 133387, Stop: 133641, Start Num: 2  
Candidate Starts for Zooman\_217:  
(Start: 2 @133387 has 5 MA's), (5, 133399), (14, 133510),