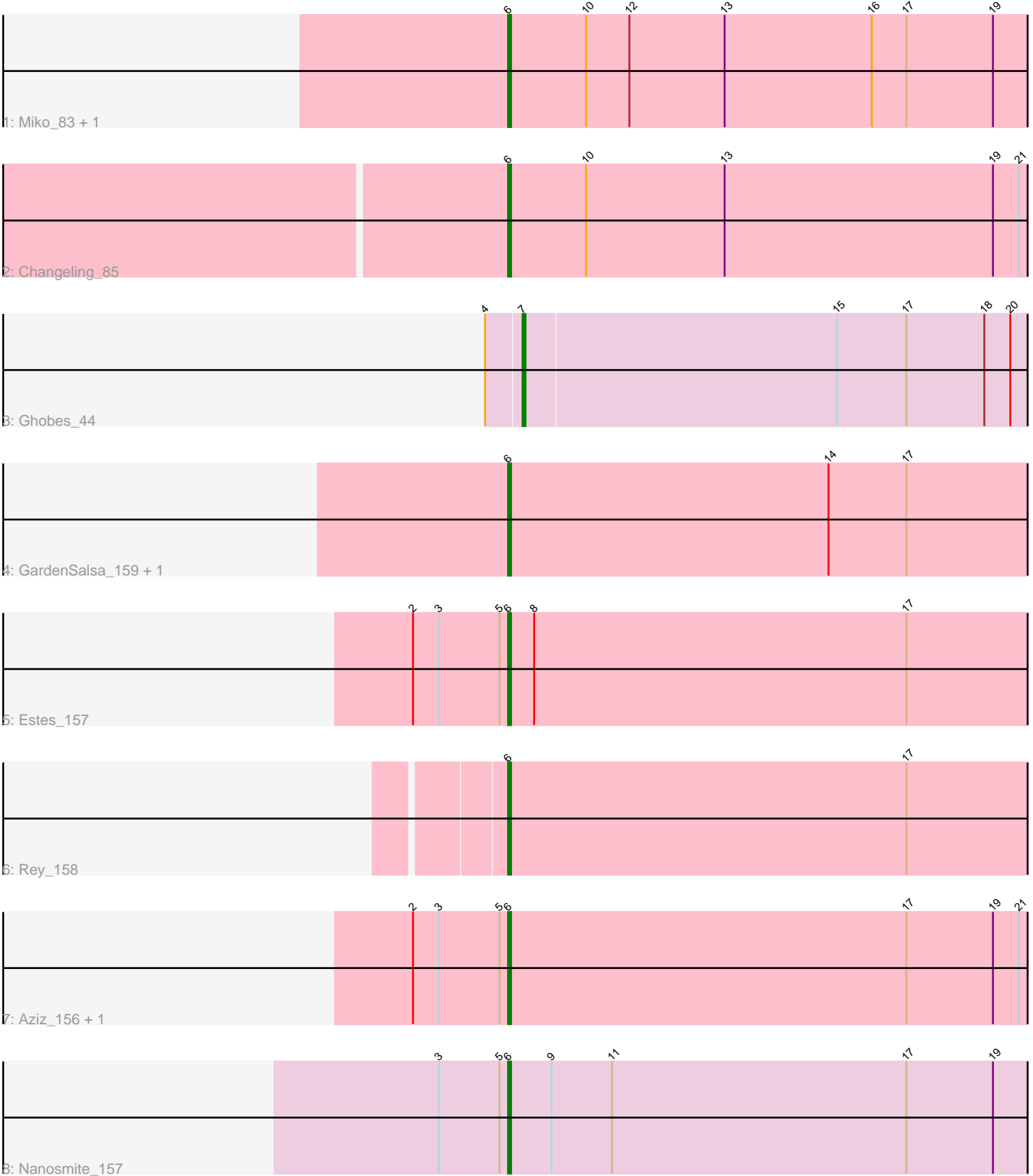


Zoomed Pham 87358



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 87358 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87358 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Miko\_83, Rachaly\_84
- Track 2 : Changeling\_85
- Track 3 : Ghobes\_44
- Track 4 : GardenSalsa\_159, MrMagoo\_161
- Track 5 : Estes\_157
- Track 6 : Rey\_158
- Track 7 : Aziz\_156, GenevaB15\_160
- Track 8 : Nanosmite\_157

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

The start number called the most often in the published annotations is 6, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aziz\_156, Changeling\_85, Estes\_157, GardenSalsa\_159, GenevaB15\_160, Miko\_83, MrMagoo\_161, Nanosmite\_157, Rachaly\_84, Rey\_158,

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

- 

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

- Ghobes\_44,

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

Start 6:

- Found in 10 of 11 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 10 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aziz\_156 (M2), Changeling\_85 (A2), Estes\_157 (M2), GardenSalsa\_159 (M2), GenevaB15\_160 (M2), Miko\_83 (A2), MrMagoo\_161 (M2), Nanosmite\_157 (M3), Rachaly\_84 (A2), Rey\_158 (M2),

Start 7:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ghobes\_44 (DA),

### **Summary by clusters:**

There are 4 clusters represented in this pham: DA, A2, M3, M2,

Info for manual annotations of cluster A2:

- Start number 6 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster DA:

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

Info for manual annotations of cluster M2:

- Start number 6 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 6 was manually annotated 1 time for cluster M3.

### **Gene Information:**

Gene: Aziz\_156 Start: 75182, Stop: 74997, Start Num: 6

Candidate Starts for Aziz\_156:

(2, 75215), (3, 75206), (5, 75185), (Start: 6 @75182 has 10 MA's), (17, 75044), (19, 75014), (21, 75005),

Gene: Changeling\_85 Start: 49280, Stop: 49095, Start Num: 6

Candidate Starts for Changeling\_85:

(1, 49499), (Start: 6 @49280 has 10 MA's), (10, 49253), (13, 49205), (19, 49112), (21, 49103),

Gene: Estes\_157 Start: 75561, Stop: 75376, Start Num: 6

Candidate Starts for Estes\_157:

(2, 75594), (3, 75585), (5, 75564), (Start: 6 @75561 has 10 MA's), (8, 75552), (17, 75423),

Gene: GardenSalsa\_159 Start: 75942, Stop: 75757, Start Num: 6

Candidate Starts for GardenSalsa\_159:

(Start: 6 @75942 has 10 MA's), (14, 75831), (17, 75804),

Gene: GenevaB15\_160 Start: 75182, Stop: 74997, Start Num: 6

Candidate Starts for GenevaB15\_160:

(2, 75215), (3, 75206), (5, 75185), (Start: 6 @75182 has 10 MA's), (17, 75044), (19, 75014), (21, 75005),

Gene: Ghobes\_44 Start: 37837, Stop: 38010, Start Num: 7

Candidate Starts for Ghobes\_44:

(4, 37825), (Start: 7 @37837 has 1 MA's), (15, 37945), (17, 37969), (18, 37996), (20, 38005),

Gene: Miko\_83 Start: 48122, Stop: 47937, Start Num: 6

Candidate Starts for Miko\_83:

(Start: 6 @48122 has 10 MA's), (10, 48095), (12, 48080), (13, 48047), (16, 47996), (17, 47984), (19, 47954),

Gene: MrMagoo\_161 Start: 75943, Stop: 75758, Start Num: 6

Candidate Starts for MrMagoo\_161:

(Start: 6 @75943 has 10 MA's), (14, 75832), (17, 75805),

Gene: Nanosmite\_157 Start: 75297, Stop: 75109, Start Num: 6

Candidate Starts for Nanosmite\_157:

(3, 75321), (5, 75300), (Start: 6 @75297 has 10 MA's), (9, 75282), (11, 75261), (17, 75159), (19, 75129),

Gene: Rachaly\_84 Start: 48265, Stop: 48080, Start Num: 6

Candidate Starts for Rachaly\_84:

(Start: 6 @48265 has 10 MA's), (10, 48238), (12, 48223), (13, 48190), (16, 48139), (17, 48127), (19, 48097),

Gene: Rey\_158 Start: 74898, Stop: 74710, Start Num: 6

Candidate Starts for Rey\_158:

(Start: 6 @74898 has 10 MA's), (17, 74760),