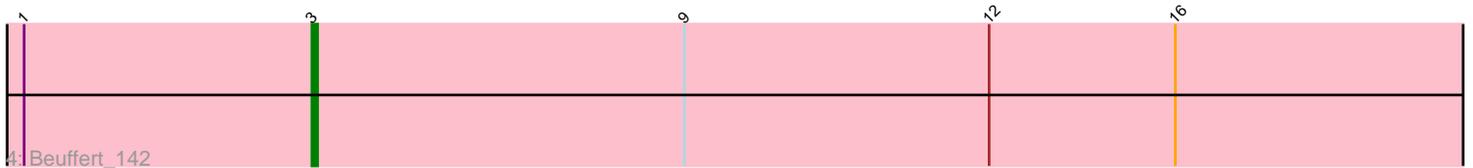
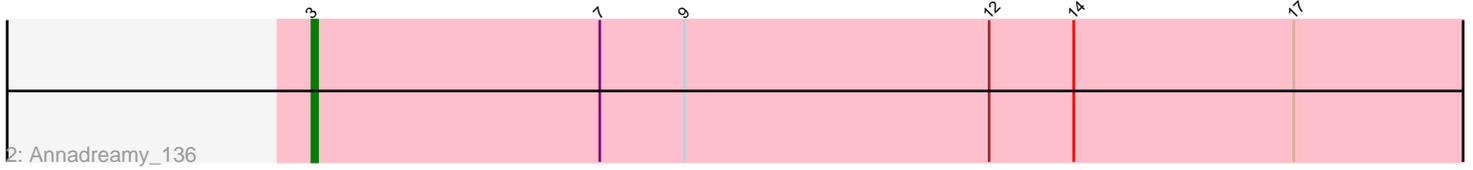
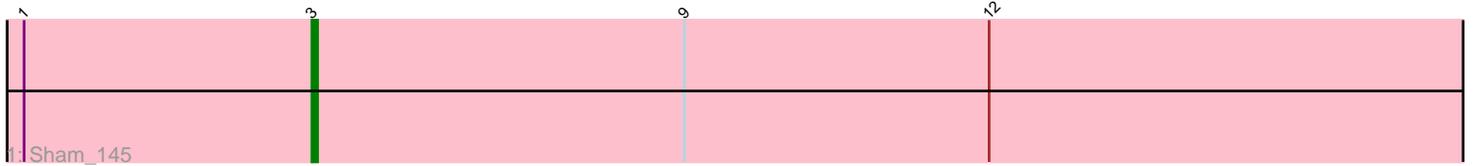


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 284350 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284350 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Sham\_145
- Track 2 : Annadreamy\_136
- Track 3 : Faust\_143, SeresaTree\_144
- Track 4 : Beuffert\_142
- Track 5 : Blueeyedbeauty\_145
- Track 6 : Limpid\_143
- Track 7 : TunaTartare\_150
- Track 8 : BillNye\_173, Circinus\_174
- Track 9 : Muntaha\_186, Wakanda\_185

### ***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 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy\_136, Beuffert\_142, BillNye\_173, Blueeyedbeauty\_145, Circinus\_174, Limpid\_143, Muntaha\_186, Sham\_145, TunaTartare\_150, Wakanda\_185,

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

- 

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

- Faust\_143, SeresaTree\_144,

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

Start 2:

- Found in 2 of 12 ( 16.7% ) 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: Faust\_143 (BK1), SeresaTree\_144 (BK1),

### Start 3:

- Found in 10 of 12 ( 83.3% ) 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: Annadreamy\_136 (BK1), Beuffert\_142 (BK1), BillNye\_173 (BK2), Blueeyedbeauty\_145 (BK1), Circinus\_174 (BK2), Limpid\_143 (BK1), Muntaha\_186 (BK2), Sham\_145 (BK1), TunaTartare\_150 (BK1), Wakanda\_185 (BK2),

### Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

#### Info for manual annotations of cluster BK1:

- Start number 2 was manually annotated 1 time for cluster BK1.
- Start number 3 was manually annotated 6 times for cluster BK1.

#### Info for manual annotations of cluster BK2:

- Start number 3 was manually annotated 4 times for cluster BK2.

### Gene Information:

Gene: Annadreamy\_136 Start: 78196, Stop: 78402, Start Num: 3

Candidate Starts for Annadreamy\_136:

(Start: 3 @78196 has 10 MA's), (7, 78247), (9, 78262), (12, 78316), (14, 78331), (17, 78370),

Gene: Beuffert\_142 Start: 82688, Stop: 82894, Start Num: 3

Candidate Starts for Beuffert\_142:

(1, 82637), (Start: 3 @82688 has 10 MA's), (9, 82754), (12, 82808), (16, 82841),

Gene: BillNye\_173 Start: 96744, Stop: 96950, Start Num: 3

Candidate Starts for BillNye\_173:

(Start: 3 @96744 has 10 MA's), (4, 96762), (6, 96786), (8, 96798), (11, 96855), (13, 96876), (15, 96894), (16, 96897),

Gene: Blueeyedbeauty\_145 Start: 82630, Stop: 82836, Start Num: 3

Candidate Starts for Blueeyedbeauty\_145:

(Start: 3 @82630 has 10 MA's), (5, 82654), (7, 82681), (9, 82696), (12, 82750), (16, 82783),

Gene: Circinus\_174 Start: 96709, Stop: 96915, Start Num: 3

Candidate Starts for Circinus\_174:

(Start: 3 @96709 has 10 MA's), (4, 96727), (6, 96751), (8, 96763), (11, 96820), (13, 96841), (15, 96859), (16, 96862),

Gene: Faust\_143 Start: 84031, Stop: 84240, Start Num: 2

Candidate Starts for Faust\_143:

(Start: 2 @84031 has 1 MA's), (9, 84100), (14, 84169),

Gene: Limpid\_143 Start: 83501, Stop: 83707, Start Num: 3

Candidate Starts for Limpid\_143:

(Start: 3 @83501 has 10 MA's), (5, 83525), (7, 83552), (9, 83567), (12, 83621),

Gene: Muntaha\_186 Start: 96100, Stop: 96306, Start Num: 3

Candidate Starts for Muntaha\_186:

(1, 96049), (Start: 3 @96100 has 10 MA's), (6, 96142), (11, 96211), (13, 96232), (16, 96253),

Gene: SeresaTree\_144 Start: 83413, Stop: 83622, Start Num: 2

Candidate Starts for SeresaTree\_144:

(Start: 2 @83413 has 1 MA's), (9, 83482), (14, 83551),

Gene: Sham\_145 Start: 85913, Stop: 86119, Start Num: 3

Candidate Starts for Sham\_145:

(1, 85862), (Start: 3 @85913 has 10 MA's), (9, 85979), (12, 86033),

Gene: TunaTartare\_150 Start: 87170, Stop: 87376, Start Num: 3

Candidate Starts for TunaTartare\_150:

(1, 87119), (Start: 3 @87170 has 10 MA's), (9, 87236), (10, 87251), (12, 87290),

Gene: Wakanda\_185 Start: 96161, Stop: 96367, Start Num: 3

Candidate Starts for Wakanda\_185:

(1, 96110), (Start: 3 @96161 has 10 MA's), (6, 96203), (11, 96272), (13, 96293), (16, 96314),