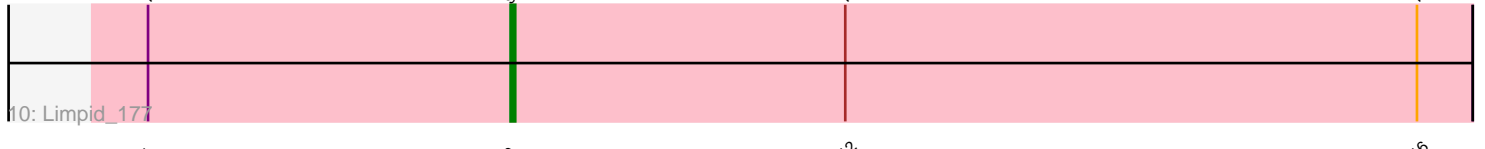
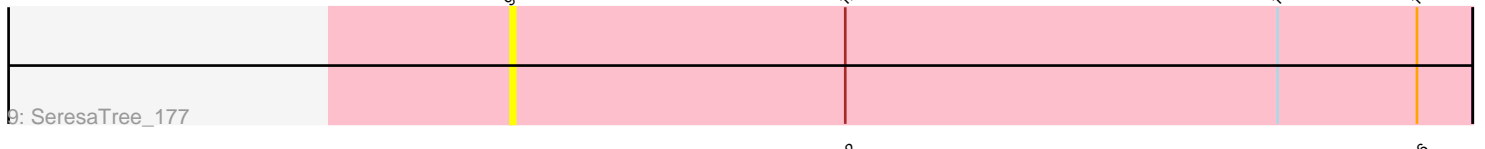
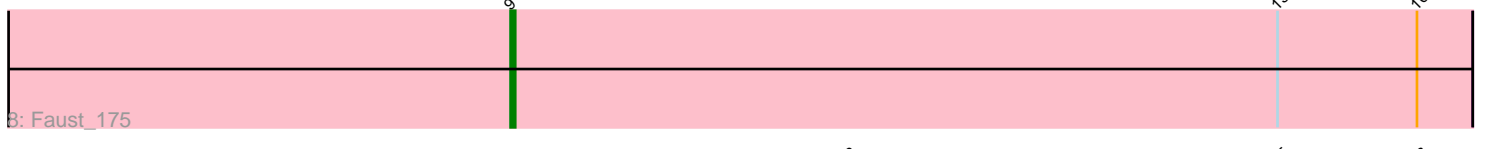
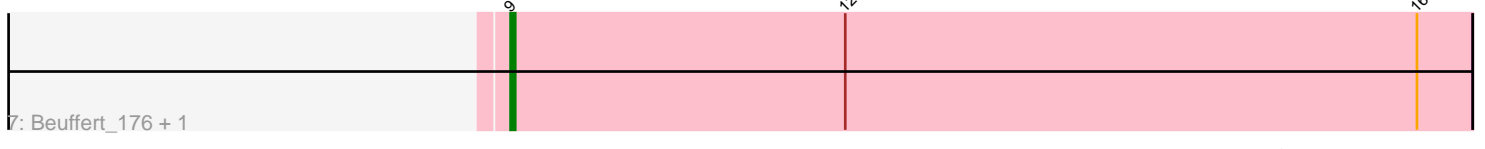
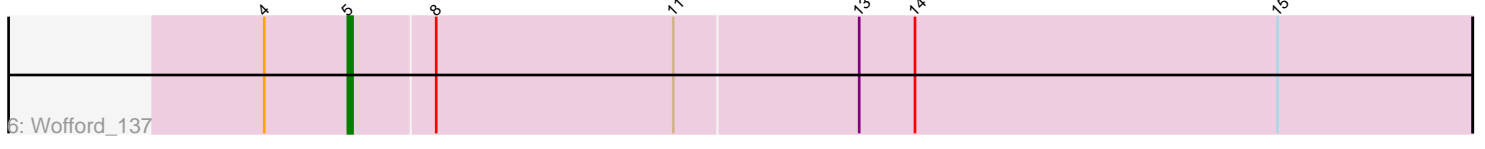
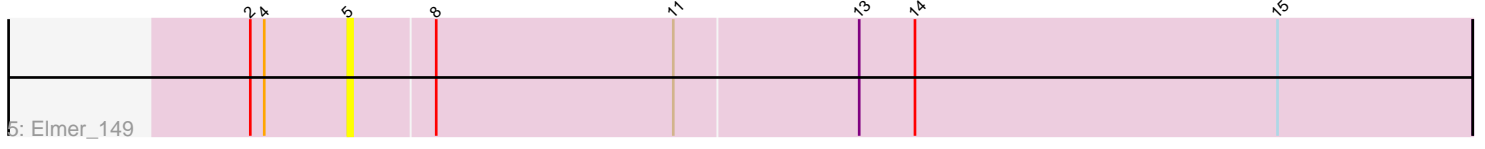
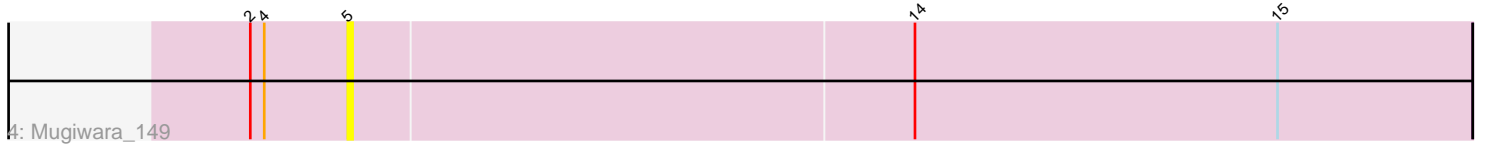
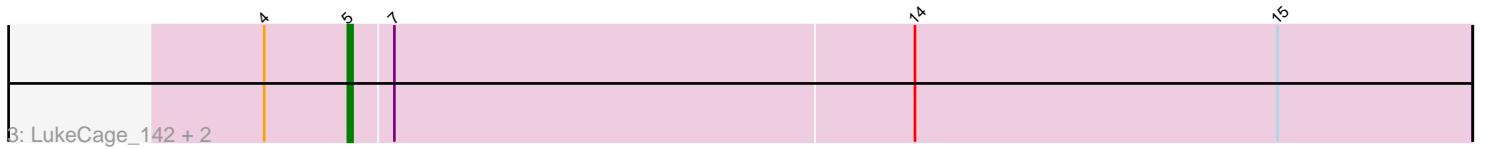
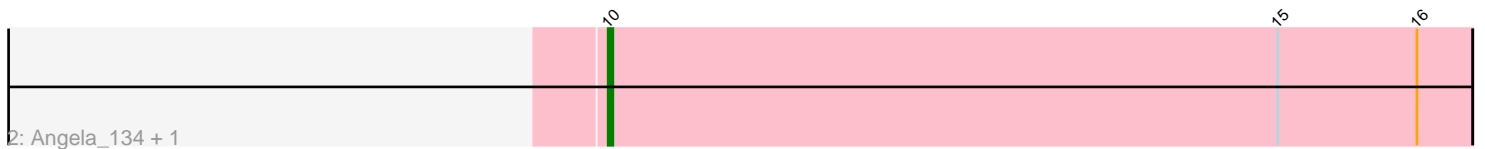
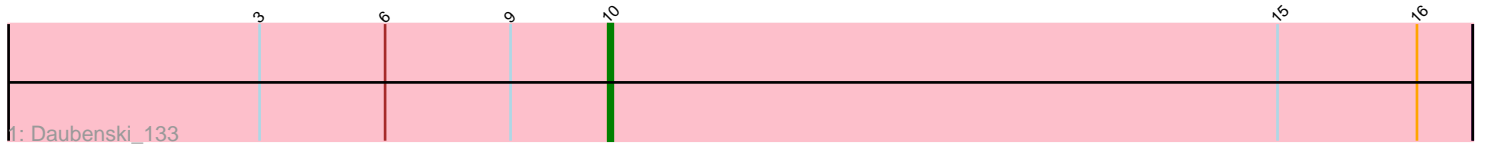


Pham 170409



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 170409 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170409 has 15 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Daubenski\_133
- Track 2 : Angela\_134, MulchMansion\_133
- Track 3 : LukeCage\_142, Enygma\_144, StarPlatinum\_146
- Track 4 : Mugiwara\_149
- Track 5 : Elmer\_149
- Track 6 : Wofford\_137
- Track 7 : Beuffert\_176, Blueeyedbeauty\_178
- Track 8 : Faust\_175
- Track 9 : SeresaTree\_177
- Track 10 : Limpid\_177
- Track 11 : Annadreamy\_170

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

The start number called the most often in the published annotations is 9, it was called in 4 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beuffert\_176, Blueeyedbeauty\_178, Faust\_175, Limpid\_177, SeresaTree\_177,

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

- Annadreamy\_170, Daubenski\_133,

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

- Angela\_134, Elmer\_149, Enygma\_144, LukeCage\_142, Mugiwara\_149, MulchMansion\_133, StarPlatinum\_146, Wofford\_137,

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

Start 1:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Annadreamy\_170 (BK1),

Start 5:

- Found in 6 of 15 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elmer\_149 (BE2), Enygma\_144 (BE2), LukeCage\_142 (BE2), Mugiwara\_149 (BE2), StarPlatinum\_146 (BE2), Wofford\_137 (BE2),

Start 9:

- Found in 7 of 15 ( 46.7% ) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Beuffert\_176 (BK1), Blueeyedbeauty\_178 (BK1), Faust\_175 (BK1), Limpid\_177 (BK1), SeresaTree\_177 (BK1),

Start 10:

- Found in 3 of 15 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angela\_134 (BE1), Daubenski\_133 (BE1), MulchMansion\_133 (BE1),

**Summary by clusters:**

There are 3 clusters represented in this pham: BE2, BE1, BK1,

Info for manual annotations of cluster BE1:

- Start number 10 was manually annotated 3 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 5 was manually annotated 4 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 1 was manually annotated 1 time for cluster BK1.
- Start number 9 was manually annotated 4 times for cluster BK1.

**Gene Information:**

Gene: Angela\_134 Start: 84163, Stop: 84348, Start Num: 10

Candidate Starts for Angela\_134:

(Start: 10 @84163 has 3 MA's), (15, 84307), (16, 84337),

Gene: Annadreamy\_170 Start: 90617, Stop: 90901, Start Num: 1

Candidate Starts for Annadreamy\_170:

(Start: 1 @90617 has 1 MA's), (Start: 9 @90695 has 4 MA's), (12, 90767), (16, 90890),

Gene: Beuffert\_176 Start: 94875, Stop: 95081, Start Num: 9

Candidate Starts for Beuffert\_176:

(Start: 9 @94875 has 4 MA's), (12, 94947), (16, 95070),

Gene: Blueeyedbeauty\_178 Start: 94461, Stop: 94667, Start Num: 9

Candidate Starts for Blueeyedbeauty\_178:

(Start: 9 @94461 has 4 MA's), (12, 94533), (16, 94656),

Gene: Daubenski\_133 Start: 85647, Stop: 85832, Start Num: 10

Candidate Starts for Daubenski\_133:

(3, 85572), (6, 85599), (Start: 9 @85626 has 4 MA's), (Start: 10 @85647 has 3 MA's), (15, 85791), (16, 85821),

Gene: Elmer\_149 Start: 87055, Stop: 87294, Start Num: 5

Candidate Starts for Elmer\_149:

(2, 87034), (4, 87037), (Start: 5 @87055 has 4 MA's), (8, 87073), (11, 87124), (13, 87163), (14, 87175), (15, 87253),

Gene: Enygma\_144 Start: 87498, Stop: 87737, Start Num: 5

Candidate Starts for Enygma\_144:

(4, 87480), (Start: 5 @87498 has 4 MA's), (7, 87507), (14, 87618), (15, 87696),

Gene: Faust\_175 Start: 95852, Stop: 96058, Start Num: 9

Candidate Starts for Faust\_175:

(Start: 9 @95852 has 4 MA's), (15, 96017), (16, 96047),

Gene: Limpid\_177 Start: 96008, Stop: 96214, Start Num: 9

Candidate Starts for Limpid\_177:

(Start: 1 @95930 has 1 MA's), (Start: 9 @96008 has 4 MA's), (12, 96080), (16, 96203),

Gene: LukeCage\_142 Start: 86710, Stop: 86949, Start Num: 5

Candidate Starts for LukeCage\_142:

(4, 86692), (Start: 5 @86710 has 4 MA's), (7, 86719), (14, 86830), (15, 86908),

Gene: Mugiwara\_149 Start: 86535, Stop: 86774, Start Num: 5

Candidate Starts for Mugiwara\_149:

(2, 86514), (4, 86517), (Start: 5 @86535 has 4 MA's), (14, 86655), (15, 86733),

Gene: MulchMansion\_133 Start: 84111, Stop: 84296, Start Num: 10

Candidate Starts for MulchMansion\_133:

(Start: 10 @84111 has 3 MA's), (15, 84255), (16, 84285),

Gene: SeresaTree\_177 Start: 95237, Stop: 95443, Start Num: 9

Candidate Starts for SeresaTree\_177:

(Start: 9 @95237 has 4 MA's), (12, 95309), (15, 95402), (16, 95432),

Gene: StarPlatinum\_146 Start: 87153, Stop: 87392, Start Num: 5

Candidate Starts for StarPlatinum\_146:

(4, 87135), (Start: 5 @87153 has 4 MA's), (7, 87162), (14, 87273), (15, 87351),

Gene: Wofford\_137 Start: 87020, Stop: 87259, Start Num: 5

Candidate Starts for Wofford\_137:

(4, 87002), (Start: 5 @87020 has 4 MA's), (8, 87038), (11, 87089), (13, 87128), (14, 87140), (15, 87218),