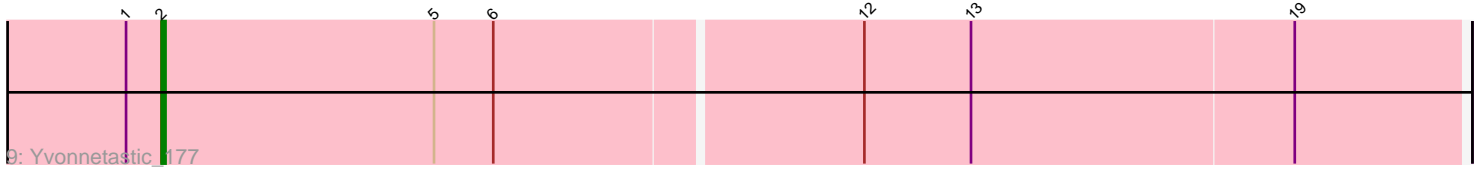
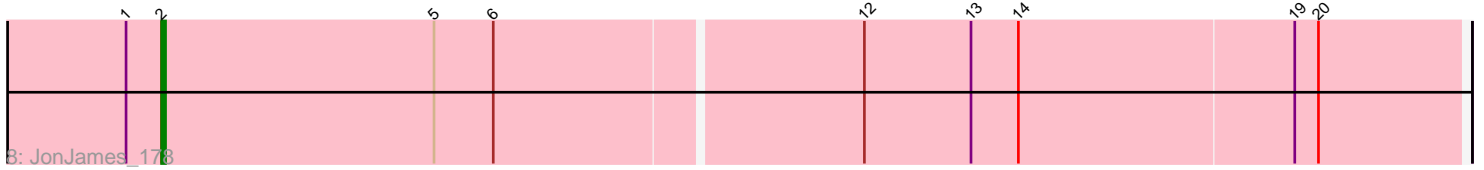
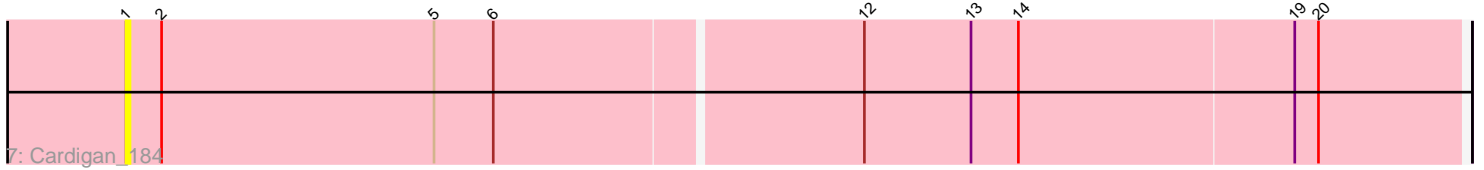
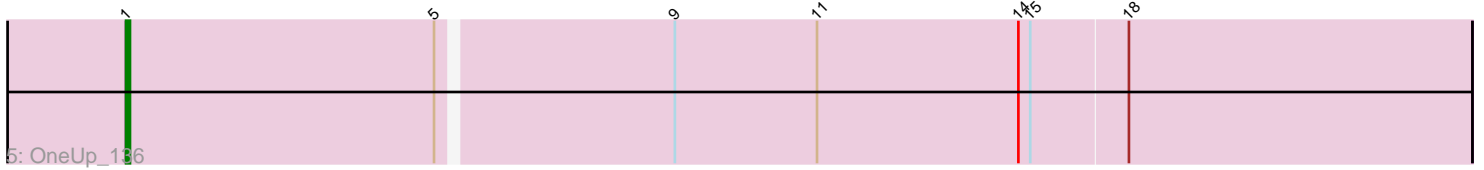
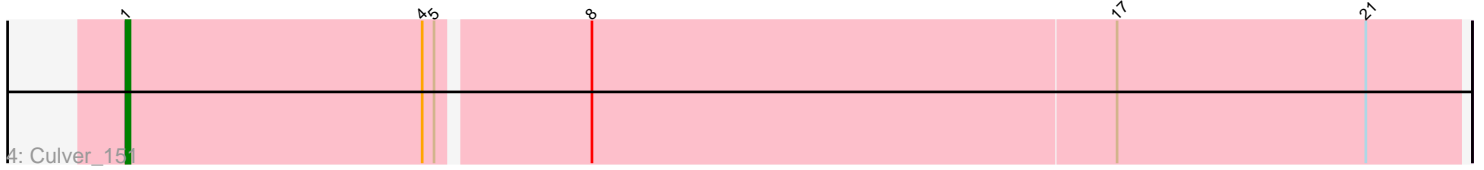
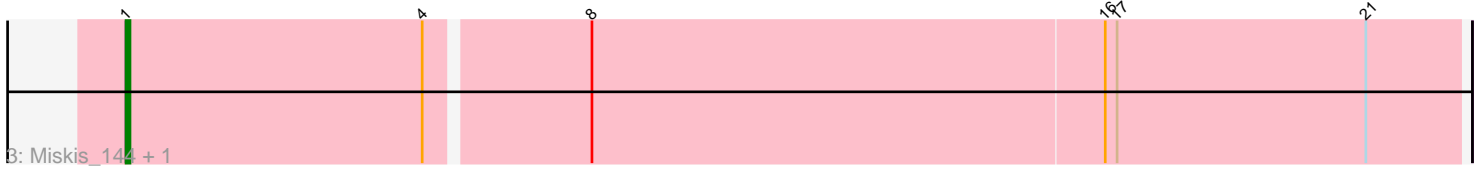
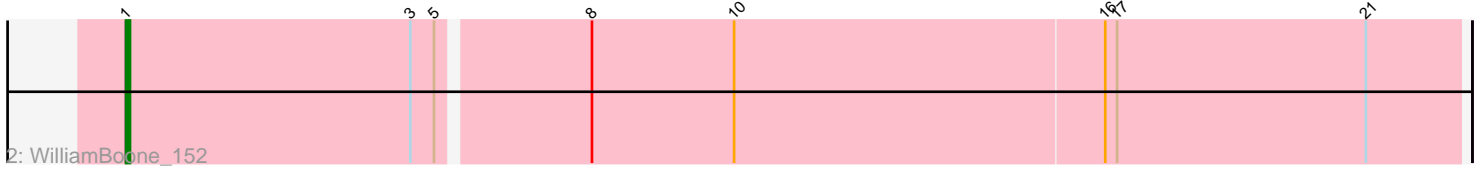
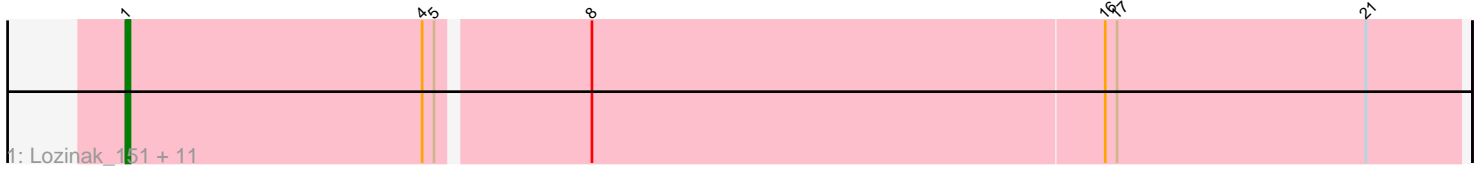


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309277 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309277 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Lozinak\_151, Bachita\_154, Geeche\_151, Abscondus\_149, ClubL\_152, Smoothie\_152, Dusty\_148, Engineer\_153, PhinkBoden\_149, Cucurbita\_150, Toniann\_151, Norvs\_149
- Track 2 : WilliamBoone\_152
- Track 3 : Miskis\_144, Aphelion\_150
- Track 4 : Culver\_151
- Track 5 : OneUp\_136
- Track 6 : BrutonGaster\_131
- Track 7 : Cardigan\_184
- Track 8 : JonJames\_178
- Track 9 : Yvonnestic\_177

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

The start number called the most often in the published annotations is 1, it was called in 17 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus\_149, Aphelion\_150, Bachita\_154, BrutonGaster\_131, Cardigan\_184, ClubL\_152, Cucurbita\_150, Culver\_151, Dusty\_148, Engineer\_153, Geeche\_151, Lozinak\_151, Miskis\_144, Norvs\_149, OneUp\_136, PhinkBoden\_149, Smoothie\_152, Toniann\_151, WilliamBoone\_152,

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

- JonJames\_178, Yvonnestic\_177,

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

- 

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

Start 1:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 19

- Called 90.5% of time when present
- Phage (with cluster) where this start called: Abscondus\_149 (CQ1), Aphelion\_150 (CQ1), Bachita\_154 (CQ1), BrutonGaster\_131 (CQ2), Cardigan\_184 (DD), ClubL\_152 (CQ1), Cucurbita\_150 (CQ1), Culver\_151 (CQ1), Dusty\_148 (CQ1), Engineer\_153 (CQ1), Geeche\_151 (CQ1), Lozinak\_151 (CQ1), Miskis\_144 (CQ1), Norvs\_149 (CQ1), OneUp\_136 (CQ2), PhinkBoden\_149 (CQ1), Smoothie\_152 (CQ1), Toniann\_151 (CQ1), WilliamBoone\_152 (CQ1),

Start 2:

- Found in 3 of 21 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 66.7% of time when present
- Phage (with cluster) where this start called: JonJames\_178 (DD), Yvonnetastic\_177 (DD),

### **Summary by clusters:**

There are 3 clusters represented in this pham: CQ2, DD, CQ1,

Info for manual annotations of cluster CQ1:

- Start number 1 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 1 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:

- Start number 2 was manually annotated 2 times for cluster DD.

### **Gene Information:**

Gene: Abscondus\_149 Start: 81381, Stop: 81049, Start Num: 1

Candidate Starts for Abscondus\_149:

(Start: 1 @81381 has 17 MA's), (4, 81306), (5, 81303), (8, 81267), (16, 81138), (17, 81135), (21, 81072),

Gene: Aphelion\_150 Start: 82274, Stop: 81942, Start Num: 1

Candidate Starts for Aphelion\_150:

(Start: 1 @82274 has 17 MA's), (4, 82199), (8, 82160), (16, 82031), (17, 82028), (21, 81965),

Gene: Bachita\_154 Start: 82421, Stop: 82089, Start Num: 1

Candidate Starts for Bachita\_154:

(Start: 1 @82421 has 17 MA's), (4, 82346), (5, 82343), (8, 82307), (16, 82178), (17, 82175), (21, 82112),

Gene: BrutonGaster\_131 Start: 77597, Stop: 77262, Start Num: 1

Candidate Starts for BrutonGaster\_131:

(Start: 1 @77597 has 17 MA's), (5, 77519), (7, 77504), (8, 77483), (9, 77462), (14, 77375), (15, 77372),

Gene: Cardigan\_184 Start: 91705, Stop: 91373, Start Num: 1

Candidate Starts for Cardigan\_184:

(Start: 1 @91705 has 17 MA's), (Start: 2 @91696 has 2 MA's), (5, 91627), (6, 91612), (12, 91522), (13, 91495), (14, 91483), (19, 91414), (20, 91408),

Gene: ClubL\_152 Start: 81673, Stop: 81341, Start Num: 1

Candidate Starts for ClubL\_152:

(Start: 1 @81673 has 17 MA's), (4, 81598), (5, 81595), (8, 81559), (16, 81430), (17, 81427), (21, 81364),

Gene: Cucurbita\_150 Start: 82734, Stop: 82402, Start Num: 1

Candidate Starts for Cucurbita\_150:

(Start: 1 @82734 has 17 MA's), (4, 82659), (5, 82656), (8, 82620), (16, 82491), (17, 82488), (21, 82425),

Gene: Culver\_151 Start: 80998, Stop: 80666, Start Num: 1

Candidate Starts for Culver\_151:

(Start: 1 @80998 has 17 MA's), (4, 80923), (5, 80920), (8, 80884), (17, 80752), (21, 80689),

Gene: Dusty\_148 Start: 81209, Stop: 80877, Start Num: 1

Candidate Starts for Dusty\_148:

(Start: 1 @81209 has 17 MA's), (4, 81134), (5, 81131), (8, 81095), (16, 80966), (17, 80963), (21, 80900),

Gene: Engineer\_153 Start: 82257, Stop: 81925, Start Num: 1

Candidate Starts for Engineer\_153:

(Start: 1 @82257 has 17 MA's), (4, 82182), (5, 82179), (8, 82143), (16, 82014), (17, 82011), (21, 81948),

Gene: Geeche\_151 Start: 81634, Stop: 81302, Start Num: 1

Candidate Starts for Geeche\_151:

(Start: 1 @81634 has 17 MA's), (4, 81559), (5, 81556), (8, 81520), (16, 81391), (17, 81388), (21, 81325),

Gene: JonJames\_178 Start: 92616, Stop: 92293, Start Num: 2

Candidate Starts for JonJames\_178:

(Start: 1 @92625 has 17 MA's), (Start: 2 @92616 has 2 MA's), (5, 92547), (6, 92532), (12, 92442), (13, 92415), (14, 92403), (19, 92334), (20, 92328),

Gene: Lozinak\_151 Start: 82262, Stop: 81930, Start Num: 1

Candidate Starts for Lozinak\_151:

(Start: 1 @82262 has 17 MA's), (4, 82187), (5, 82184), (8, 82148), (16, 82019), (17, 82016), (21, 81953),

Gene: Miskis\_144 Start: 81023, Stop: 80691, Start Num: 1

Candidate Starts for Miskis\_144:

(Start: 1 @81023 has 17 MA's), (4, 80948), (8, 80909), (16, 80780), (17, 80777), (21, 80714),

Gene: Norvs\_149 Start: 81453, Stop: 81121, Start Num: 1

Candidate Starts for Norvs\_149:

(Start: 1 @81453 has 17 MA's), (4, 81378), (5, 81375), (8, 81339), (16, 81210), (17, 81207), (21, 81144),

Gene: OneUp\_136 Start: 81006, Stop: 80671, Start Num: 1

Candidate Starts for OneUp\_136:

(Start: 1 @81006 has 17 MA's), (5, 80928), (9, 80871), (11, 80835), (14, 80784), (15, 80781), (18, 80757),

Gene: PhinkBoden\_149 Start: 81851, Stop: 81519, Start Num: 1

Candidate Starts for PhinkBoden\_149:

(Start: 1 @81851 has 17 MA's), (4, 81776), (5, 81773), (8, 81737), (16, 81608), (17, 81605), (21, 81542),

Gene: Smoothie\_152 Start: 81838, Stop: 81506, Start Num: 1

Candidate Starts for Smoothie\_152:

(Start: 1 @81838 has 17 MA's), (4, 81763), (5, 81760), (8, 81724), (16, 81595), (17, 81592), (21, 81529),

Gene: Toniann\_151 Start: 81594, Stop: 81262, Start Num: 1

Candidate Starts for Toniann\_151:

(Start: 1 @81594 has 17 MA's), (4, 81519), (5, 81516), (8, 81480), (16, 81351), (17, 81348), (21, 81285),

Gene: WilliamBoone\_152 Start: 79852, Stop: 79520, Start Num: 1

Candidate Starts for WilliamBoone\_152:

(Start: 1 @79852 has 17 MA's), (3, 79780), (5, 79774), (8, 79738), (10, 79702), (16, 79609), (17, 79606), (21, 79543),

Gene: Yvonnetastic\_177 Start: 89515, Stop: 89192, Start Num: 2

Candidate Starts for Yvonnetastic\_177:

(Start: 1 @89524 has 17 MA's), (Start: 2 @89515 has 2 MA's), (5, 89446), (6, 89431), (12, 89341), (13, 89314), (19, 89233),