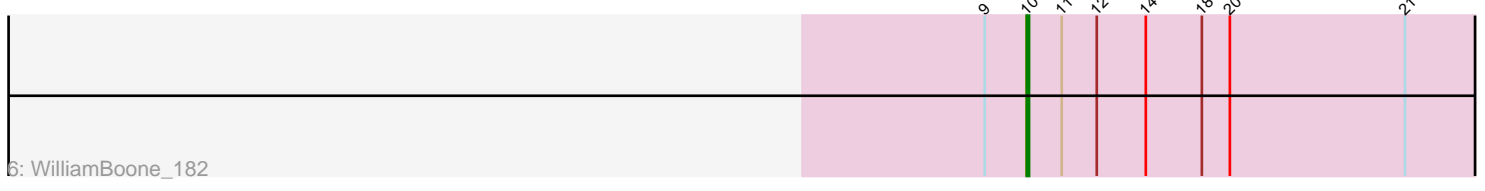
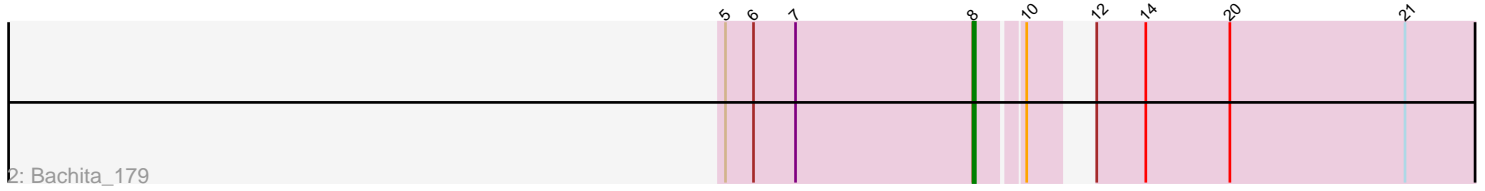
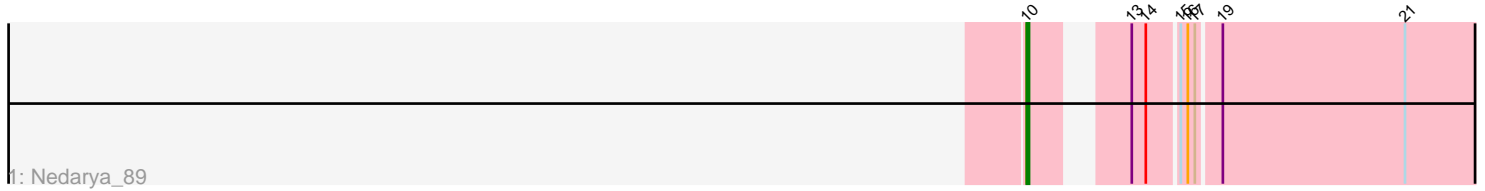


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 293222 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293222 has 17 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Nedarya\_89
- Track 2 : Bachita\_179
- Track 3 : Lozinak\_177, PhinkBoden\_174, Aphelion\_175, Norvs\_174, Toniann\_177, Miskis\_168, Smoothie\_178, Cucurbita\_176, ClubL\_177
- Track 4 : Geeche\_181
- Track 5 : Dusty\_171, Engineer\_178
- Track 6 : WilliamBoone\_182
- Track 7 : Culver\_179
- Track 8 : Abscondus\_173

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

The start number called the most often in the published annotations is 10, it was called in 15 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus\_173, Aphelion\_175, ClubL\_177, Cucurbita\_176, Culver\_179, Dusty\_171, Engineer\_178, Geeche\_181, Lozinak\_177, Miskis\_168, Nedarya\_89, Norvs\_174, PhinkBoden\_174, Smoothie\_178, Toniann\_177, WilliamBoone\_182,

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

- Bachita\_179,

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

- 

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

Start 8:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bachita\_179 (CQ1),

Start 10:

- Found in 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 15 of 16
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Abscondus\_173 (CQ1), Aphelion\_175 (CQ1), ClubL\_177 (CQ1), Cucurbita\_176 (CQ1), Culver\_179 (CQ1), Dusty\_171 (CQ1), Engineer\_178 (CQ1), Geeche\_181 (CQ1), Lozinak\_177 (CQ1), Miskis\_168 (CQ1), Nedarya\_89 (A15), Norvs\_174 (CQ1), PhinkBoden\_174 (CQ1), Smoothie\_178 (CQ1), Toniann\_177 (CQ1), WilliamBoone\_182 (CQ1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: A15, CQ1,

Info for manual annotations of cluster A15:

- Start number 10 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster CQ1:

- Start number 8 was manually annotated 1 time for cluster CQ1.
- Start number 10 was manually annotated 14 times for cluster CQ1.

### **Gene Information:**

Gene: Abscondus\_173 Start: 87999, Stop: 87820, Start Num: 10

Candidate Starts for Abscondus\_173:

(4, 88182), (9, 88014), (Start: 10 @87999 has 15 MA's), (12, 87984), (20, 87927), (21, 87852),

Gene: Aphelion\_175 Start: 88897, Stop: 88718, Start Num: 10

Candidate Starts for Aphelion\_175:

(9, 88912), (Start: 10 @88897 has 15 MA's), (12, 88882), (13, 88867), (20, 88825), (21, 88750),

Gene: Bachita\_179 Start: 88991, Stop: 88794, Start Num: 8

Candidate Starts for Bachita\_179:

(5, 89093), (6, 89081), (7, 89063), (Start: 8 @88991 has 1 MA's), (Start: 10 @88973 has 15 MA's), (12, 88958), (14, 88937), (20, 88901), (21, 88826),

Gene: ClubL\_177 Start: 88218, Stop: 88039, Start Num: 10

Candidate Starts for ClubL\_177:

(9, 88233), (Start: 10 @88218 has 15 MA's), (12, 88203), (13, 88188), (20, 88146), (21, 88071),

Gene: Cucurbita\_176 Start: 89279, Stop: 89100, Start Num: 10

Candidate Starts for Cucurbita\_176:

(9, 89294), (Start: 10 @89279 has 15 MA's), (12, 89264), (13, 89249), (20, 89207), (21, 89132),

Gene: Culver\_179 Start: 87812, Stop: 87633, Start Num: 10

Candidate Starts for Culver\_179:

(9, 87830), (Start: 10 @87812 has 15 MA's), (12, 87797), (14, 87776), (18, 87752), (20, 87740), (21, 87665),

Gene: Dusty\_171 Start: 87623, Stop: 87444, Start Num: 10

Candidate Starts for Dusty\_171:

(9, 87638), (Start: 10 @87623 has 15 MA's), (12, 87608), (14, 87587), (20, 87551), (21, 87476),

Gene: Engineer\_178 Start: 88974, Stop: 88795, Start Num: 10

Candidate Starts for Engineer\_178:

(9, 88989), (Start: 10 @88974 has 15 MA's), (12, 88959), (14, 88938), (20, 88902), (21, 88827),

Gene: Geeche\_181 Start: 89642, Stop: 89463, Start Num: 10

Candidate Starts for Geeche\_181:

(1, 90044), (2, 89966), (3, 89957), (4, 89825), (9, 89657), (Start: 10 @89642 has 15 MA's), (12, 89627), (14, 89606), (18, 89582), (20, 89570), (21, 89495),

Gene: Lozinak\_177 Start: 88822, Stop: 88643, Start Num: 10

Candidate Starts for Lozinak\_177:

(9, 88837), (Start: 10 @88822 has 15 MA's), (12, 88807), (13, 88792), (20, 88750), (21, 88675),

Gene: Miskis\_168 Start: 87663, Stop: 87484, Start Num: 10

Candidate Starts for Miskis\_168:

(9, 87678), (Start: 10 @87663 has 15 MA's), (12, 87648), (13, 87633), (20, 87591), (21, 87516),

Gene: Nedarya\_89 Start: 48485, Stop: 48312, Start Num: 10

Candidate Starts for Nedarya\_89:

(Start: 10 @48485 has 15 MA's), (13, 48455), (14, 48449), (15, 48437), (16, 48434), (17, 48431), (19, 48422), (21, 48344),

Gene: Norvs\_174 Start: 87998, Stop: 87819, Start Num: 10

Candidate Starts for Norvs\_174:

(9, 88013), (Start: 10 @87998 has 15 MA's), (12, 87983), (13, 87968), (20, 87926), (21, 87851),

Gene: PhinkBoden\_174 Start: 88396, Stop: 88217, Start Num: 10

Candidate Starts for PhinkBoden\_174:

(9, 88411), (Start: 10 @88396 has 15 MA's), (12, 88381), (13, 88366), (20, 88324), (21, 88249),

Gene: Smoothie\_178 Start: 88694, Stop: 88515, Start Num: 10

Candidate Starts for Smoothie\_178:

(9, 88709), (Start: 10 @88694 has 15 MA's), (12, 88679), (13, 88664), (20, 88622), (21, 88547),

Gene: Toniann\_177 Start: 88139, Stop: 87960, Start Num: 10

Candidate Starts for Toniann\_177:

(9, 88154), (Start: 10 @88139 has 15 MA's), (12, 88124), (13, 88109), (20, 88067), (21, 87992),

Gene: WilliamBoone\_182 Start: 87648, Stop: 87454, Start Num: 10

Candidate Starts for WilliamBoone\_182:

(9, 87666), (Start: 10 @87648 has 15 MA's), (11, 87633), (12, 87618), (14, 87597), (18, 87573), (20, 87561), (21, 87486),