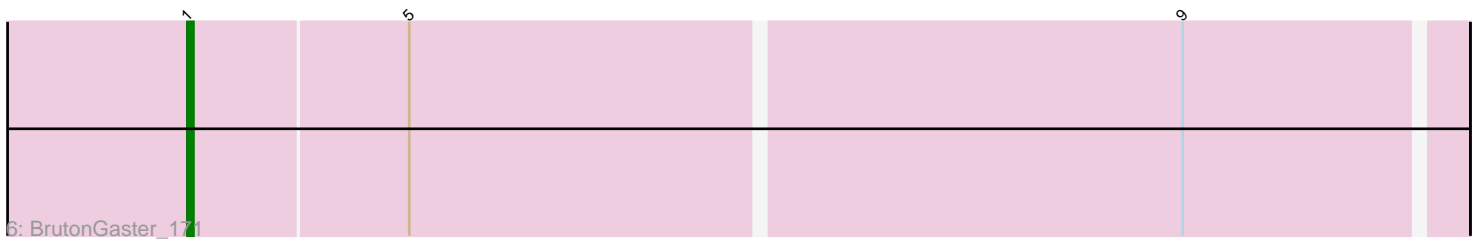
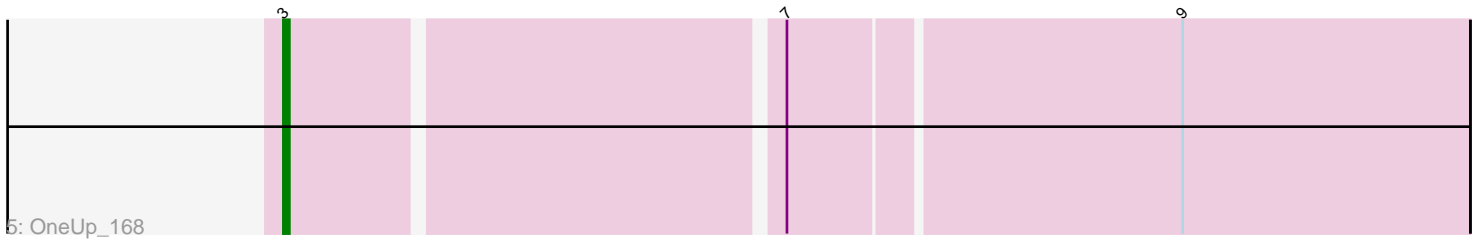
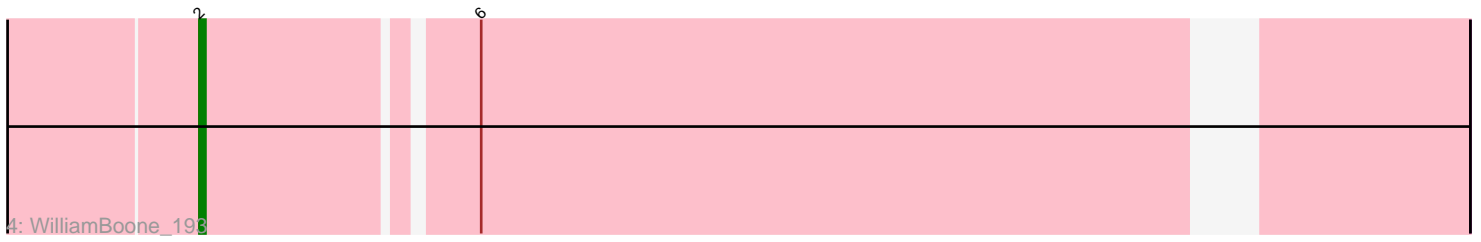
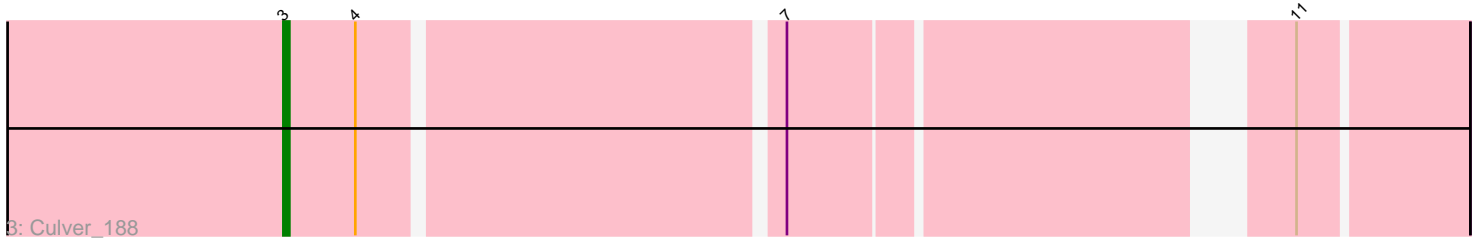
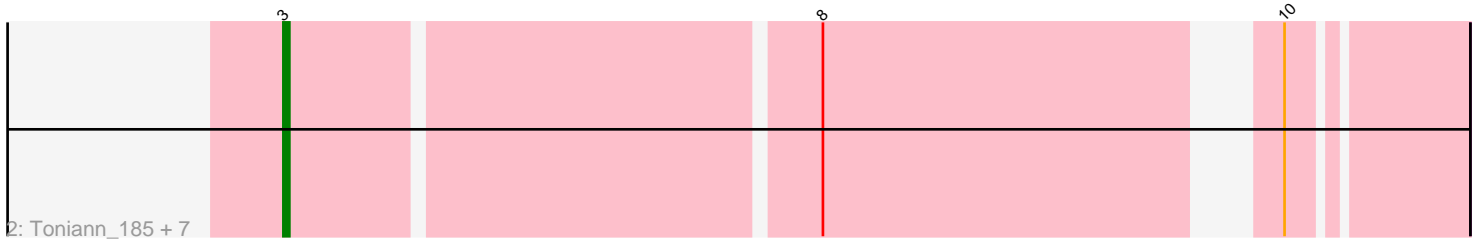
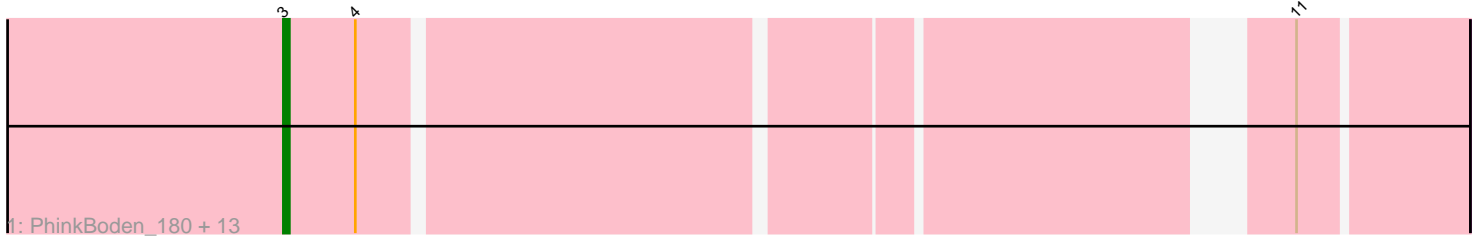


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 194280 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194280 has 26 members, 5 are drafts.

Phages represented in each track:

- Track 1 : PhinkBoden\_180, Lozinak\_183, Geeche\_189, Toniann\_183, Abscondus\_182, Dusty\_176, Norvs\_180, Engineer\_184, Bachita\_187, Aphelion\_180, Miskis\_183, Smoothie\_184, ClubL\_183, Cucurbita\_182
- Track 2 : Toniann\_185, Norvs\_182, Dusty\_178, Lozinak\_185, Engineer\_186, Aphelion\_182, ClubL\_185, Cucurbita\_184
- Track 3 : Culver\_188
- Track 4 : WilliamBoone\_193
- Track 5 : OneUp\_168
- Track 6 : BrutonGaster\_171

### ***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 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus\_182, Aphelion\_180, Aphelion\_182, Bachita\_187, ClubL\_183, ClubL\_185, Cucurbita\_182, Cucurbita\_184, Culver\_188, Dusty\_176, Dusty\_178, Engineer\_184, Engineer\_186, Geeche\_189, Lozinak\_183, Lozinak\_185, Miskis\_183, Norvs\_180, Norvs\_182, OneUp\_168, PhinkBoden\_180, Smoothie\_184, Toniann\_183, Toniann\_185,

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

- 

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

- BrutonGaster\_171, WilliamBoone\_193,

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

Start 1:

- Found in 1 of 26 ( 3.8% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BrutonGaster\_171 (CQ2),

Start 2:

- Found in 1 of 26 ( 3.8% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WilliamBoone\_193 (CQ1),

Start 3:

- Found in 24 of 26 ( 92.3% ) of genes in pham
- Manual Annotations of this start: 19 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus\_182 (CQ1), Aphelion\_180 (CQ1), Aphelion\_182 (CQ1), Bachita\_187 (CQ1), ClubL\_183 (CQ1), ClubL\_185 (CQ1), Cucurbita\_182 (CQ1), Cucurbita\_184 (CQ1), Culver\_188 (CQ1), Dusty\_176 (CQ1), Dusty\_178 (CQ1), Engineer\_184 (CQ1), Engineer\_186 (CQ1), Geeche\_189 (CQ1), Lozinak\_183 (CQ1), Lozinak\_185 (CQ1), Miskis\_183 (CQ1), Norvs\_180 (CQ1), Norvs\_182 (CQ1), OneUp\_168 (CQ2), PhinkBoden\_180 (CQ1), Smoothie\_184 (CQ1), Toniann\_183 (CQ1), Toniann\_185 (CQ1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: CQ2, CQ1,

Info for manual annotations of cluster CQ1:

- Start number 2 was manually annotated 1 time for cluster CQ1.
- Start number 3 was manually annotated 18 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 1 was manually annotated 1 time for cluster CQ2.
- Start number 3 was manually annotated 1 time for cluster CQ2.

### **Gene Information:**

Gene: Abscondus\_182 Start: 90717, Stop: 90541, Start Num: 3

Candidate Starts for Abscondus\_182:

(Start: 3 @90717 has 19 MA's), (4, 90705), (11, 90567),

Gene: Aphelion\_182 Start: 92432, Stop: 92256, Start Num: 3

Candidate Starts for Aphelion\_182:

(Start: 3 @92432 has 19 MA's), (8, 92348), (10, 92282),

Gene: Aphelion\_180 Start: 91255, Stop: 91079, Start Num: 3

Candidate Starts for Aphelion\_180:

(Start: 3 @91255 has 19 MA's), (4, 91243), (11, 91105),

Gene: Bachita\_187 Start: 92079, Stop: 91903, Start Num: 3

Candidate Starts for Bachita\_187:

(Start: 3 @92079 has 19 MA's), (4, 92067), (11, 91929),

Gene: BrutonGaster\_171 Start: 90602, Stop: 90396, Start Num: 1

Candidate Starts for BrutonGaster\_171:  
(Start: 1 @90602 has 1 MA's), (5, 90566), (9, 90440),

Gene: ClubL\_183 Start: 90576, Stop: 90400, Start Num: 3  
Candidate Starts for ClubL\_183:  
(Start: 3 @90576 has 19 MA's), (4, 90564), (11, 90426),

Gene: ClubL\_185 Start: 91753, Stop: 91577, Start Num: 3  
Candidate Starts for ClubL\_185:  
(Start: 3 @91753 has 19 MA's), (8, 91669), (10, 91603),

Gene: Cucurbita\_182 Start: 91637, Stop: 91461, Start Num: 3  
Candidate Starts for Cucurbita\_182:  
(Start: 3 @91637 has 19 MA's), (4, 91625), (11, 91487),

Gene: Cucurbita\_184 Start: 92814, Stop: 92638, Start Num: 3  
Candidate Starts for Cucurbita\_184:  
(Start: 3 @92814 has 19 MA's), (8, 92730), (10, 92664),

Gene: Culver\_188 Start: 91341, Stop: 91165, Start Num: 3  
Candidate Starts for Culver\_188:  
(Start: 3 @91341 has 19 MA's), (4, 91329), (7, 91263), (11, 91191),

Gene: Dusty\_176 Start: 89983, Stop: 89807, Start Num: 3  
Candidate Starts for Dusty\_176:  
(Start: 3 @89983 has 19 MA's), (4, 89971), (11, 89833),

Gene: Dusty\_178 Start: 91159, Stop: 90983, Start Num: 3  
Candidate Starts for Dusty\_178:  
(Start: 3 @91159 has 19 MA's), (8, 91075), (10, 91009),

Gene: Engineer\_184 Start: 91334, Stop: 91158, Start Num: 3  
Candidate Starts for Engineer\_184:  
(Start: 3 @91334 has 19 MA's), (4, 91322), (11, 91184),

Gene: Engineer\_186 Start: 92510, Stop: 92334, Start Num: 3  
Candidate Starts for Engineer\_186:  
(Start: 3 @92510 has 19 MA's), (8, 92426), (10, 92360),

Gene: Geeche\_189 Start: 92362, Stop: 92186, Start Num: 3  
Candidate Starts for Geeche\_189:  
(Start: 3 @92362 has 19 MA's), (4, 92350), (11, 92212),

Gene: Lozinak\_183 Start: 91180, Stop: 91004, Start Num: 3  
Candidate Starts for Lozinak\_183:  
(Start: 3 @91180 has 19 MA's), (4, 91168), (11, 91030),

Gene: Lozinak\_185 Start: 92357, Stop: 92181, Start Num: 3  
Candidate Starts for Lozinak\_185:  
(Start: 3 @92357 has 19 MA's), (8, 92273), (10, 92207),

Gene: Miskis\_183 Start: 90021, Stop: 89845, Start Num: 3  
Candidate Starts for Miskis\_183:

(Start: 3 @90021 has 19 MA's), (4, 90009), (11, 89871),

Gene: Norvs\_182 Start: 91533, Stop: 91357, Start Num: 3

Candidate Starts for Norvs\_182:

(Start: 3 @91533 has 19 MA's), (8, 91449), (10, 91383),

Gene: Norvs\_180 Start: 90356, Stop: 90180, Start Num: 3

Candidate Starts for Norvs\_180:

(Start: 3 @90356 has 19 MA's), (4, 90344), (11, 90206),

Gene: OneUp\_168 Start: 91137, Stop: 90949, Start Num: 3

Candidate Starts for OneUp\_168:

(Start: 3 @91137 has 19 MA's), (7, 91059), (9, 90996),

Gene: PhinkBoden\_180 Start: 90754, Stop: 90578, Start Num: 3

Candidate Starts for PhinkBoden\_180:

(Start: 3 @90754 has 19 MA's), (4, 90742), (11, 90604),

Gene: Smoothie\_184 Start: 91052, Stop: 90876, Start Num: 3

Candidate Starts for Smoothie\_184:

(Start: 3 @91052 has 19 MA's), (4, 91040), (11, 90902),

Gene: Toniann\_185 Start: 91674, Stop: 91498, Start Num: 3

Candidate Starts for Toniann\_185:

(Start: 3 @91674 has 19 MA's), (8, 91590), (10, 91524),

Gene: Toniann\_183 Start: 90497, Stop: 90321, Start Num: 3

Candidate Starts for Toniann\_183:

(Start: 3 @90497 has 19 MA's), (4, 90485), (11, 90347),

Gene: WilliamBoone\_193 Start: 92282, Stop: 92088, Start Num: 2

Candidate Starts for WilliamBoone\_193:

(Start: 2 @92282 has 1 MA's), (6, 92240),