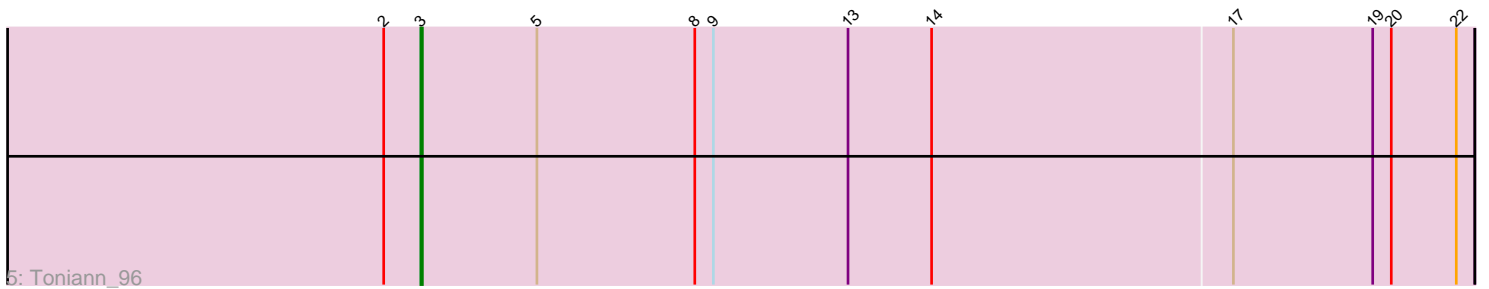
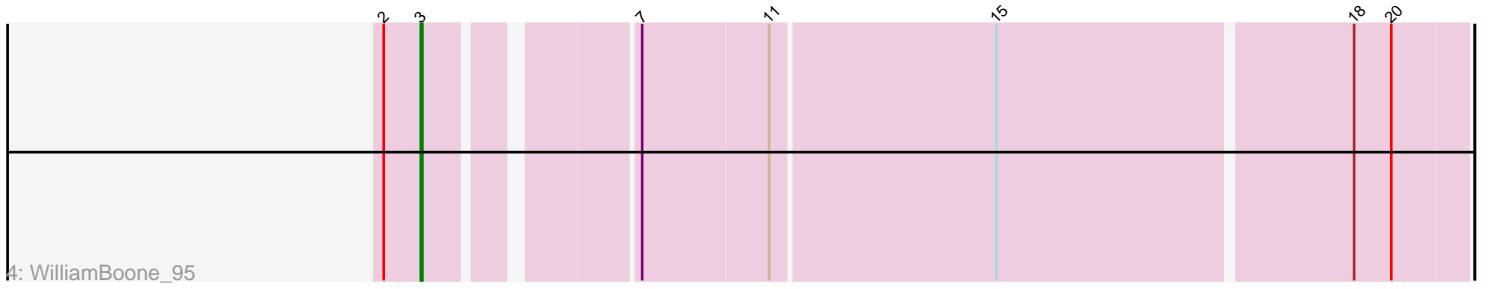
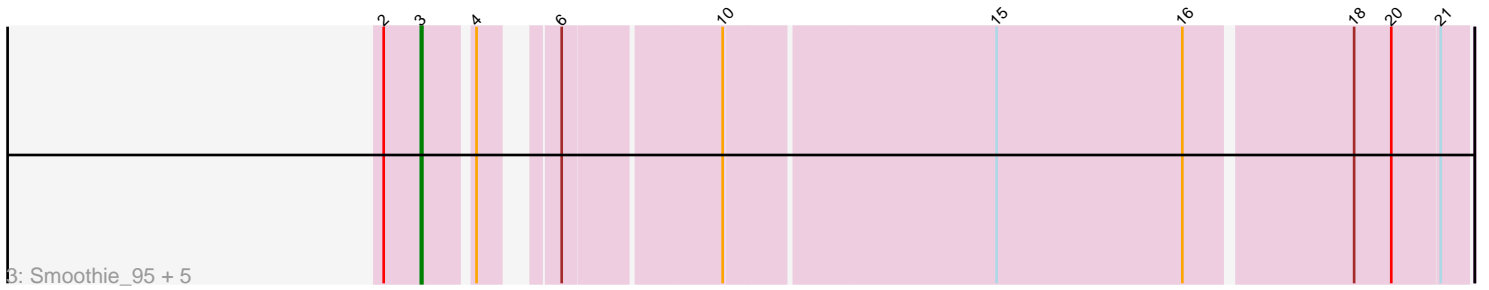
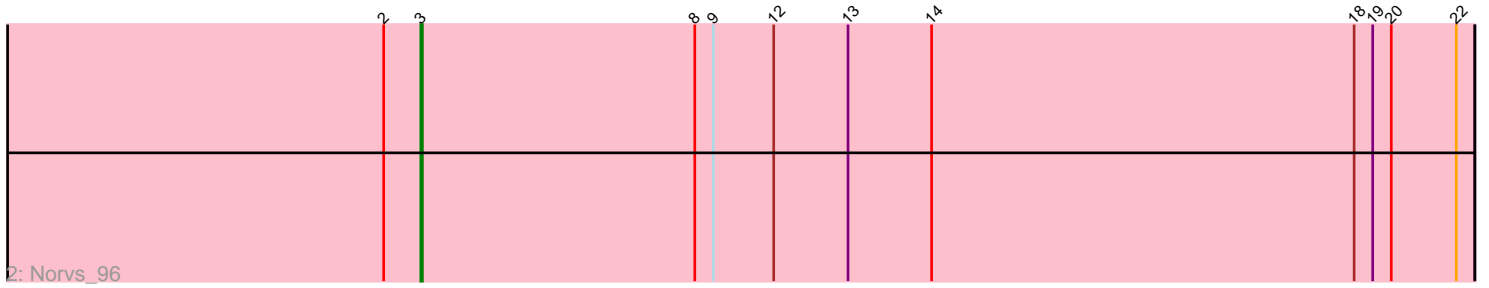
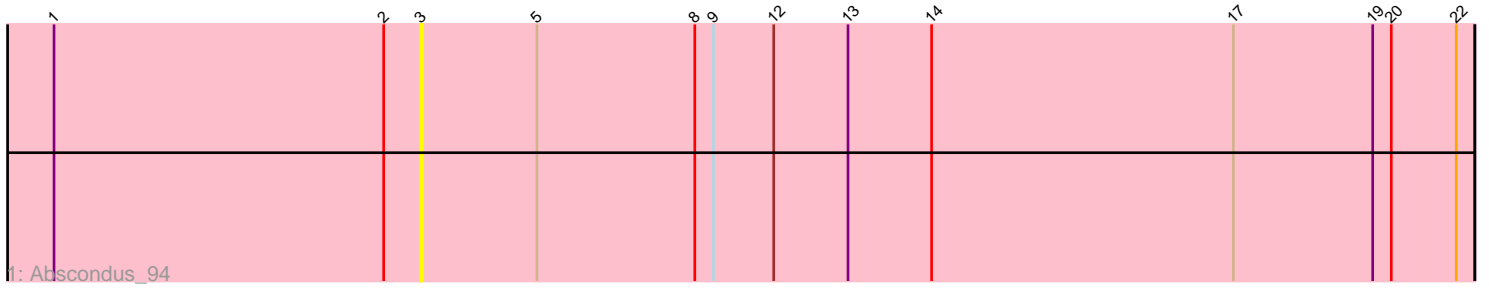


Pham 158364



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 158364 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158364 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Abscondus\_94
- Track 2 : Norvs\_96
- Track 3 : Smoothie\_95, Cucurbita\_95, PhinkBoden\_93, Bachita\_96, Engineer\_95, Lozinak\_94
- Track 4 : WilliamBoone\_95
- Track 5 : Toniann\_96

### ***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 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus\_94, Bachita\_96, Cucurbita\_95, Engineer\_95, Lozinak\_94, Norvs\_96, PhinkBoden\_93, Smoothie\_95, Toniann\_96, WilliamBoone\_95,

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

- 

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

- 

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

Start 3:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus\_94 (CQ), Bachita\_96 (CQ1), Cucurbita\_95 (CQ1), Engineer\_95 (CQ1), Lozinak\_94 (CQ1), Norvs\_96 (CQ), PhinkBoden\_93 (CQ1), Smoothie\_95 (CQ1), Toniann\_96 (CQ1), WilliamBoone\_95 (CQ1),

### **Summary by clusters:**

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

Info for manual annotations of cluster CQ:

•Start number 3 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

•Start number 3 was manually annotated 8 times for cluster CQ1.

### **Gene Information:**

Gene: Abscondus\_94 Start: 57612, Stop: 58292, Start Num: 3

Candidate Starts for Abscondus\_94:

(1, 57375), (2, 57588), (Start: 3 @57612 has 9 MA's), (5, 57687), (8, 57789), (9, 57801), (12, 57840), (13, 57888), (14, 57942), (17, 58137), (19, 58227), (20, 58239), (22, 58281),

Gene: Bachita\_96 Start: 58490, Stop: 59107, Start Num: 3

Candidate Starts for Bachita\_96:

(2, 58466), (Start: 3 @58490 has 9 MA's), (4, 58517), (6, 58550), (10, 58646), (15, 58814), (16, 58934), (18, 59036), (20, 59060), (21, 59090),

Gene: Cucurbita\_95 Start: 58997, Stop: 59614, Start Num: 3

Candidate Starts for Cucurbita\_95:

(2, 58973), (Start: 3 @58997 has 9 MA's), (4, 59024), (6, 59057), (10, 59153), (15, 59321), (16, 59441), (18, 59543), (20, 59567), (21, 59597),

Gene: Engineer\_95 Start: 58463, Stop: 59080, Start Num: 3

Candidate Starts for Engineer\_95:

(2, 58439), (Start: 3 @58463 has 9 MA's), (4, 58490), (6, 58523), (10, 58619), (15, 58787), (16, 58907), (18, 59009), (20, 59033), (21, 59063),

Gene: Lozinak\_94 Start: 58301, Stop: 58918, Start Num: 3

Candidate Starts for Lozinak\_94:

(2, 58277), (Start: 3 @58301 has 9 MA's), (4, 58328), (6, 58361), (10, 58457), (15, 58625), (16, 58745), (18, 58847), (20, 58871), (21, 58901),

Gene: Norvs\_96 Start: 58055, Stop: 58735, Start Num: 3

Candidate Starts for Norvs\_96:

(2, 58031), (Start: 3 @58055 has 9 MA's), (8, 58232), (9, 58244), (12, 58283), (13, 58331), (14, 58385), (18, 58658), (19, 58670), (20, 58682), (22, 58724),

Gene: PhinkBoden\_93 Start: 58091, Stop: 58708, Start Num: 3

Candidate Starts for PhinkBoden\_93:

(2, 58067), (Start: 3 @58091 has 9 MA's), (4, 58118), (6, 58151), (10, 58247), (15, 58415), (16, 58535), (18, 58637), (20, 58661), (21, 58691),

Gene: Smoothie\_95 Start: 58301, Stop: 58918, Start Num: 3

Candidate Starts for Smoothie\_95:

(2, 58277), (Start: 3 @58301 has 9 MA's), (4, 58328), (6, 58361), (10, 58457), (15, 58625), (16, 58745), (18, 58847), (20, 58871), (21, 58901),

Gene: Toniann\_96 Start: 57998, Stop: 58675, Start Num: 3

Candidate Starts for Toniann\_96:

(2, 57974), (Start: 3 @57998 has 9 MA's), (5, 58073), (8, 58175), (9, 58187), (13, 58274), (14, 58328), (17, 58520), (19, 58610), (20, 58622), (22, 58664),

Gene: WilliamBoone\_95 Start: 56764, Stop: 57390, Start Num: 3

Candidate Starts for WilliamBoone\_95:

(2, 56740), (Start: 3 @56764 has 9 MA's), (7, 56878), (11, 56956), (15, 57097), (18, 57319), (20, 57343),