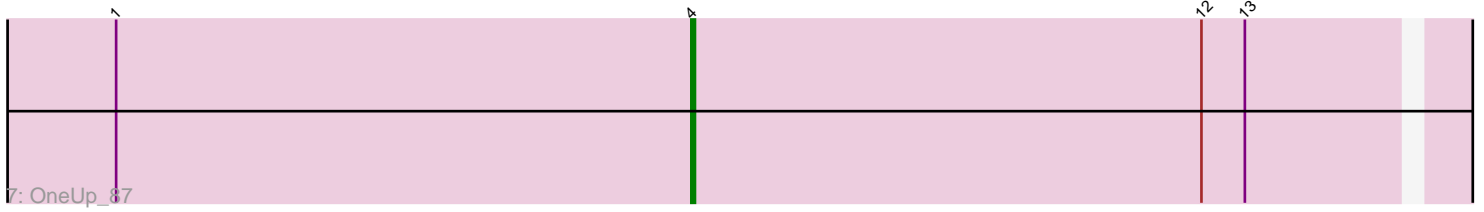
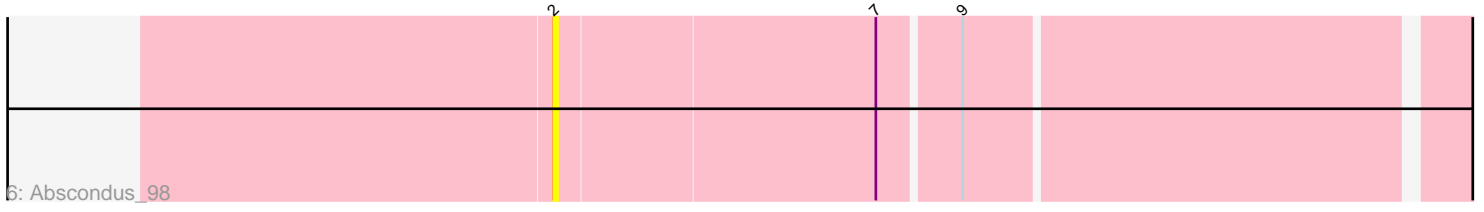
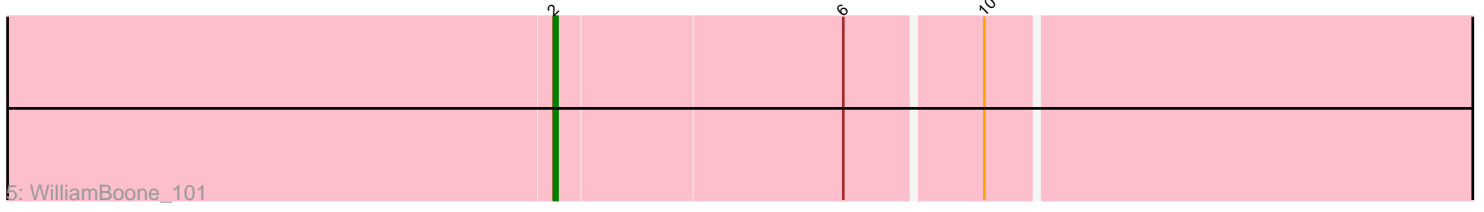
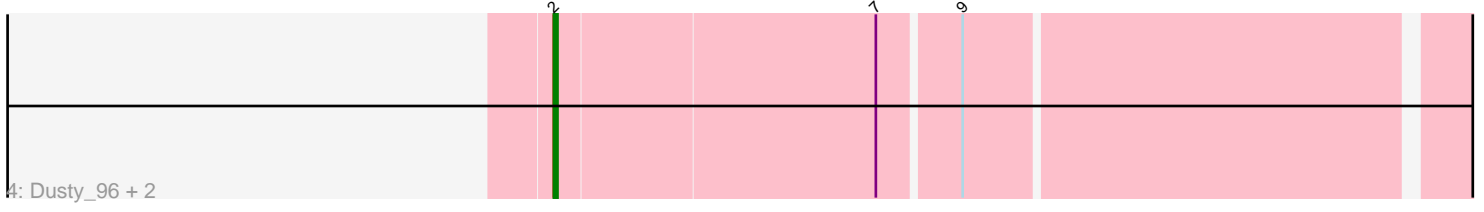
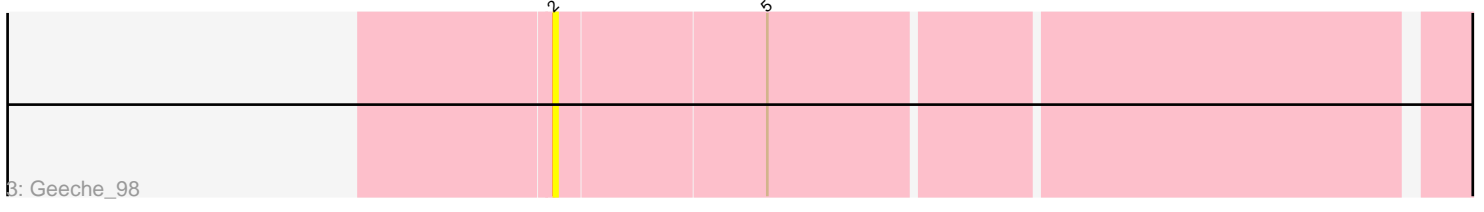
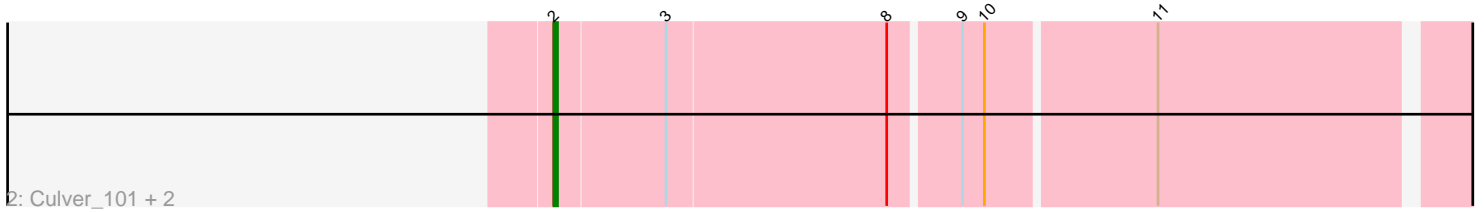
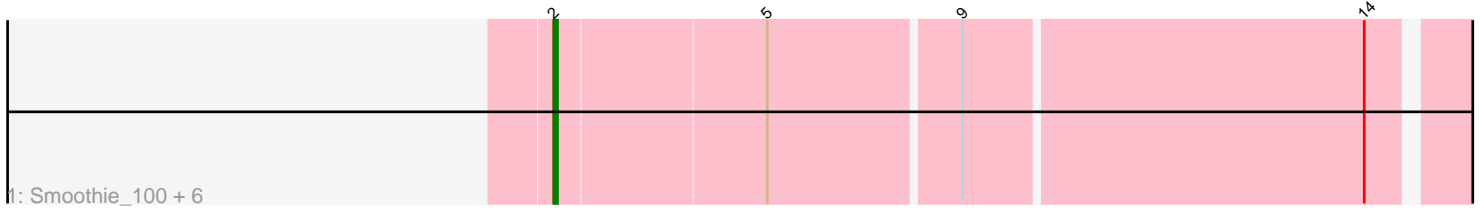


Pham 195821



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 195821 Report

This analysis was run 12/09/24 on database version 580.

Pham number 195821 has 17 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Smoothie\_100, Engineer\_100, Cucurbita\_100, PhinkBoden\_98, Toniann\_101, Bachita\_101, Lozinak\_99
- Track 2 : Culver\_101, Norvs\_101, ClubL\_100
- Track 3 : Geeche\_98
- Track 4 : Dusty\_96, Aphelion\_100, Miskis\_97
- Track 5 : WilliamBoone\_101
- Track 6 : Abscondus\_98
- Track 7 : OneUp\_87

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

The start number called the most often in the published annotations is 2, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus\_98, Aphelion\_100, Bachita\_101, ClubL\_100, Cucurbita\_100, Culver\_101, Dusty\_96, Engineer\_100, Geeche\_98, Lozinak\_99, Miskis\_97, Norvs\_101, PhinkBoden\_98, Smoothie\_100, Toniann\_101, WilliamBoone\_101,

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

- 

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

- OneUp\_87,

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

Start 2:

- Found in 16 of 17 ( 94.1% ) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus\_98 (CQ1), Aphelion\_100 (CQ1), Bachita\_101 (CQ1), ClubL\_100 (CQ1), Cucurbita\_100 (CQ1), Culver\_101 (CQ1), Dusty\_96 (CQ1), Engineer\_100 (CQ1), Geeche\_98 (CQ1), Lozinak\_99 (CQ1),

Miskis\_97 (CQ1), Norvs\_101 (CQ1), PhinkBoden\_98 (CQ1), Smoothie\_100 (CQ1), Toniann\_101 (CQ1), WilliamBoone\_101 (CQ1),

Start 4:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OneUp\_87 (CQ2),

### **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 12 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 4 was manually annotated 1 time for cluster CQ2.

### **Gene Information:**

Gene: Abscondus\_98 Start: 59189, Stop: 59440, Start Num: 2

Candidate Starts for Abscondus\_98:

(Start: 2 @59189 has 12 MA's), (7, 59276), (9, 59297),

Gene: Aphelion\_100 Start: 60742, Stop: 60993, Start Num: 2

Candidate Starts for Aphelion\_100:

(Start: 2 @60742 has 12 MA's), (7, 60829), (9, 60850),

Gene: Bachita\_101 Start: 60400, Stop: 60651, Start Num: 2

Candidate Starts for Bachita\_101:

(Start: 2 @60400 has 12 MA's), (5, 60457), (9, 60508), (14, 60616),

Gene: ClubL\_100 Start: 59332, Stop: 59583, Start Num: 2

Candidate Starts for ClubL\_100:

(Start: 2 @59332 has 12 MA's), (3, 59362), (8, 59422), (9, 59440), (10, 59446), (11, 59491),

Gene: Cucurbita\_100 Start: 60907, Stop: 61158, Start Num: 2

Candidate Starts for Cucurbita\_100:

(Start: 2 @60907 has 12 MA's), (5, 60964), (9, 61015), (14, 61123),

Gene: Culver\_101 Start: 59232, Stop: 59483, Start Num: 2

Candidate Starts for Culver\_101:

(Start: 2 @59232 has 12 MA's), (3, 59262), (8, 59322), (9, 59340), (10, 59346), (11, 59391),

Gene: Dusty\_96 Start: 59248, Stop: 59499, Start Num: 2

Candidate Starts for Dusty\_96:

(Start: 2 @59248 has 12 MA's), (7, 59335), (9, 59356),

Gene: Engineer\_100 Start: 60373, Stop: 60624, Start Num: 2

Candidate Starts for Engineer\_100:

(Start: 2 @60373 has 12 MA's), (5, 60430), (9, 60481), (14, 60589),

Gene: Geeche\_98 Start: 59471, Stop: 59722, Start Num: 2

Candidate Starts for Geeche\_98:

(Start: 2 @59471 has 12 MA's), (5, 59528),

Gene: Lozinak\_99 Start: 60211, Stop: 60462, Start Num: 2

Candidate Starts for Lozinak\_99:

(Start: 2 @60211 has 12 MA's), (5, 60268), (9, 60319), (14, 60427),

Gene: Miskis\_97 Start: 58911, Stop: 59162, Start Num: 2

Candidate Starts for Miskis\_97:

(Start: 2 @58911 has 12 MA's), (7, 58998), (9, 59019),

Gene: Norvs\_101 Start: 60240, Stop: 60491, Start Num: 2

Candidate Starts for Norvs\_101:

(Start: 2 @60240 has 12 MA's), (3, 60270), (8, 60330), (9, 60348), (10, 60354), (11, 60399),

Gene: OneUp\_87 Start: 56617, Stop: 56829, Start Num: 4

Candidate Starts for OneUp\_87:

(1, 56458), (Start: 4 @56617 has 1 MA's), (12, 56758), (13, 56770),

Gene: PhinkBoden\_98 Start: 60001, Stop: 60252, Start Num: 2

Candidate Starts for PhinkBoden\_98:

(Start: 2 @60001 has 12 MA's), (5, 60058), (9, 60109), (14, 60217),

Gene: Smoothie\_100 Start: 60211, Stop: 60462, Start Num: 2

Candidate Starts for Smoothie\_100:

(Start: 2 @60211 has 12 MA's), (5, 60268), (9, 60319), (14, 60427),

Gene: Toniann\_101 Start: 60180, Stop: 60431, Start Num: 2

Candidate Starts for Toniann\_101:

(Start: 2 @60180 has 12 MA's), (5, 60237), (9, 60288), (14, 60396),

Gene: WilliamBoone\_101 Start: 58943, Stop: 59200, Start Num: 2

Candidate Starts for WilliamBoone\_101:

(Start: 2 @58943 has 12 MA's), (6, 59021), (10, 59057),