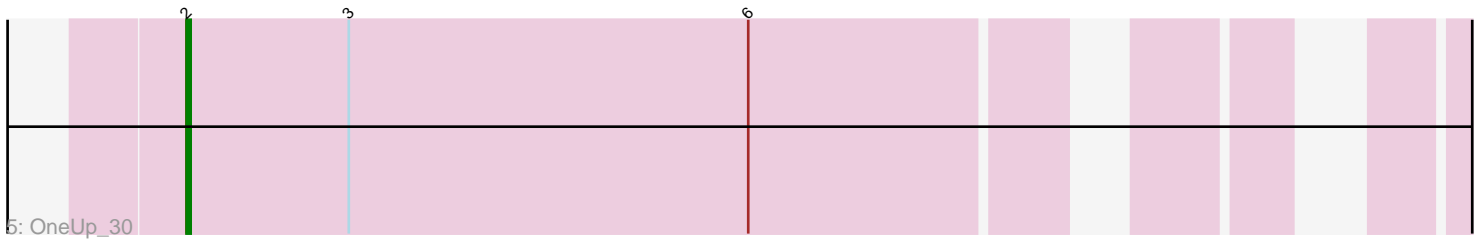
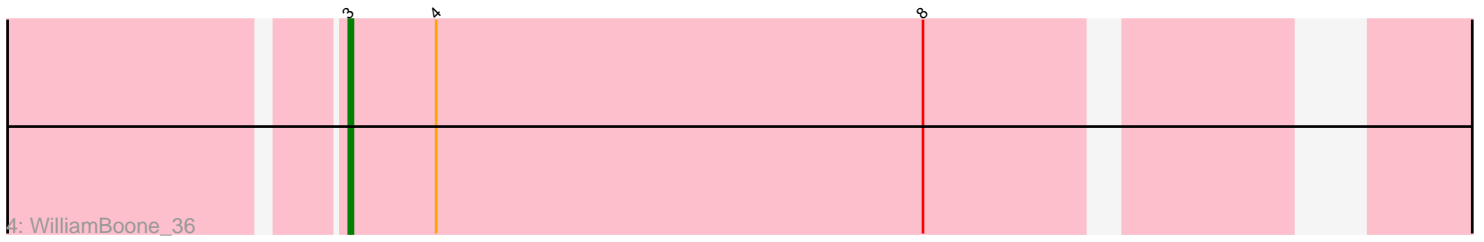
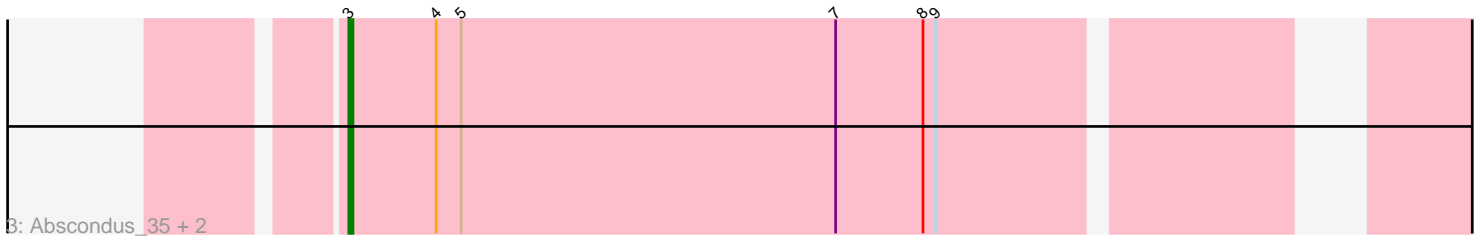
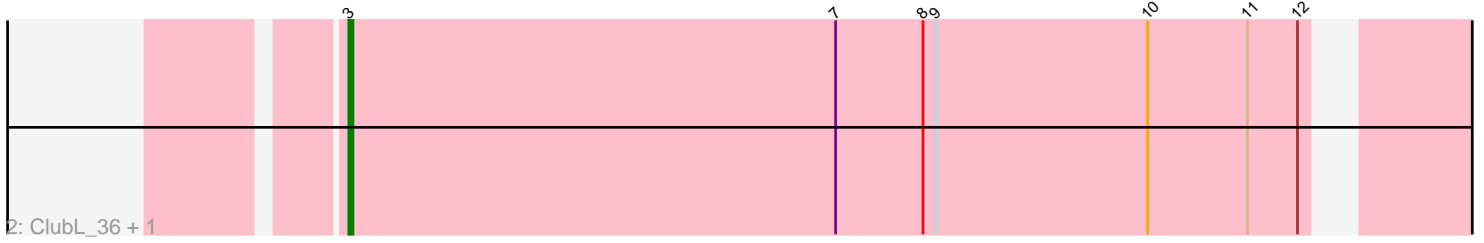
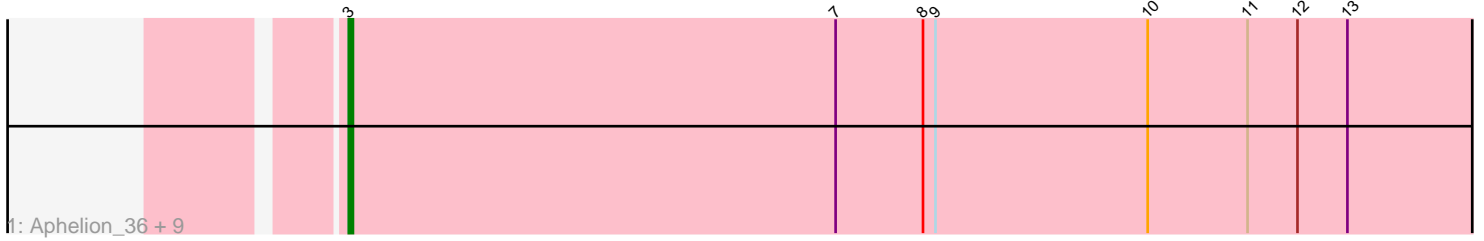


Pham 216623



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 216623 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216623 has 18 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Aphelion\_36, Lozinak\_36, Bachita\_38, Smoothie\_37, Cucurbita\_38, PhinkBoden\_36, Toniann\_36, Geeche\_35, Norvs\_37, Engineer\_37
- Track 2 : ClubL\_36, Miskis\_38
- Track 3 : Abscondus\_35, Dusty\_34, Culver\_36
- Track 4 : WilliamBoone\_36
- Track 5 : OneUp\_30
- Track 6 : BrutonGaster\_24

### ***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 13 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus\_35, Aphelion\_36, Bachita\_38, BrutonGaster\_24, ClubL\_36, Cucurbita\_38, Culver\_36, Dusty\_34, Engineer\_37, Geeche\_35, Lozinak\_36, Miskis\_38, Norvs\_37, PhinkBoden\_36, Smoothie\_37, Toniann\_36, WilliamBoone\_36,

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

- OneUp\_30,

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

- 

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

Start 2:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OneUp\_30 (CQ2),

Start 3:

- Found in 18 of 18 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 13 of 14
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Abscondus\_35 (CQ1), Aphelion\_36 (CQ1), Bachita\_38 (CQ1), BrutonGaster\_24 (CQ2), ClubL\_36 (CQ1), Cucurbita\_38 (CQ1), Culver\_36 (CQ1), Dusty\_34 (CQ1), Engineer\_37 (CQ1), Geeche\_35 (CQ1), Lozinak\_36 (CQ1), Miskis\_38 (CQ1), Norvs\_37 (CQ1), PhinkBoden\_36 (CQ1), Smoothie\_37 (CQ1), Toniann\_36 (CQ1), WilliamBoone\_36 (CQ1),

### **Summary by clusters:**

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

Info for manual annotations of cluster CQ1:

- Start number 3 was manually annotated 12 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 2 was manually annotated 1 time for cluster CQ2.
- Start number 3 was manually annotated 1 time for cluster CQ2.

### **Gene Information:**

Gene: Abscondus\_35 Start: 15180, Stop: 15494, Start Num: 3

Candidate Starts for Abscondus\_35:

(Start: 3 @15180 has 13 MA's), (4, 15201), (5, 15207), (7, 15297), (8, 15318), (9, 15321),

Gene: Aphelion\_36 Start: 15425, Stop: 15763, Start Num: 3

Candidate Starts for Aphelion\_36:

(Start: 3 @15425 has 13 MA's), (7, 15542), (8, 15563), (9, 15566), (10, 15617), (11, 15641), (12, 15653), (13, 15665),

Gene: Bachita\_38 Start: 15858, Stop: 16196, Start Num: 3

Candidate Starts for Bachita\_38:

(Start: 3 @15858 has 13 MA's), (7, 15975), (8, 15996), (9, 15999), (10, 16050), (11, 16074), (12, 16086), (13, 16098),

Gene: BrutonGaster\_24 Start: 12147, Stop: 12392, Start Num: 3

Candidate Starts for BrutonGaster\_24:

(1, 12096), (Start: 3 @12147 has 13 MA's),

Gene: ClubL\_36 Start: 15359, Stop: 15685, Start Num: 3

Candidate Starts for ClubL\_36:

(Start: 3 @15359 has 13 MA's), (7, 15476), (8, 15497), (9, 15500), (10, 15551), (11, 15575), (12, 15587),

Gene: Cucurbita\_38 Start: 16717, Stop: 17055, Start Num: 3

Candidate Starts for Cucurbita\_38:

(Start: 3 @16717 has 13 MA's), (7, 16834), (8, 16855), (9, 16858), (10, 16909), (11, 16933), (12, 16945), (13, 16957),

Gene: Culver\_36 Start: 15180, Stop: 15494, Start Num: 3

Candidate Starts for Culver\_36:

(Start: 3 @15180 has 13 MA's), (4, 15201), (5, 15207), (7, 15297), (8, 15318), (9, 15321),

Gene: Dusty\_34 Start: 15180, Stop: 15494, Start Num: 3

Candidate Starts for Dusty\_34:

(Start: 3 @15180 has 13 MA's), (4, 15201), (5, 15207), (7, 15297), (8, 15318), (9, 15321),

Gene: Engineer\_37 Start: 15373, Stop: 15711, Start Num: 3

Candidate Starts for Engineer\_37:

(Start: 3 @15373 has 13 MA's), (7, 15490), (8, 15511), (9, 15514), (10, 15565), (11, 15589), (12, 15601), (13, 15613),

Gene: Geeche\_35 Start: 15247, Stop: 15585, Start Num: 3

Candidate Starts for Geeche\_35:

(Start: 3 @15247 has 13 MA's), (7, 15364), (8, 15385), (9, 15388), (10, 15439), (11, 15463), (12, 15475), (13, 15487),

Gene: Lozinak\_36 Start: 15428, Stop: 15766, Start Num: 3

Candidate Starts for Lozinak\_36:

(Start: 3 @15428 has 13 MA's), (7, 15545), (8, 15566), (9, 15569), (10, 15620), (11, 15644), (12, 15656), (13, 15668),

Gene: Miskis\_38 Start: 15203, Stop: 15529, Start Num: 3

Candidate Starts for Miskis\_38:

(Start: 3 @15203 has 13 MA's), (7, 15320), (8, 15341), (9, 15344), (10, 15395), (11, 15419), (12, 15431),

Gene: Norvs\_37 Start: 15430, Stop: 15768, Start Num: 3

Candidate Starts for Norvs\_37:

(Start: 3 @15430 has 13 MA's), (7, 15547), (8, 15568), (9, 15571), (10, 15622), (11, 15646), (12, 15658), (13, 15670),

Gene: OneUp\_30 Start: 13194, Stop: 13478, Start Num: 2

Candidate Starts for OneUp\_30:

(Start: 2 @13194 has 1 MA's), (Start: 3 @13233 has 13 MA's), (6, 13329),

Gene: PhinkBoden\_36 Start: 15811, Stop: 16149, Start Num: 3

Candidate Starts for PhinkBoden\_36:

(Start: 3 @15811 has 13 MA's), (7, 15928), (8, 15949), (9, 15952), (10, 16003), (11, 16027), (12, 16039), (13, 16051),

Gene: Smoothie\_37 Start: 15428, Stop: 15766, Start Num: 3

Candidate Starts for Smoothie\_37:

(Start: 3 @15428 has 13 MA's), (7, 15545), (8, 15566), (9, 15569), (10, 15620), (11, 15644), (12, 15656), (13, 15668),

Gene: Toniann\_36 Start: 15373, Stop: 15711, Start Num: 3

Candidate Starts for Toniann\_36:

(Start: 3 @15373 has 13 MA's), (7, 15490), (8, 15511), (9, 15514), (10, 15565), (11, 15589), (12, 15601), (13, 15613),

Gene: WilliamBoone\_36 Start: 14761, Stop: 15075, Start Num: 3

Candidate Starts for WilliamBoone\_36:

(Start: 3 @14761 has 13 MA's), (4, 14782), (8, 14899),

