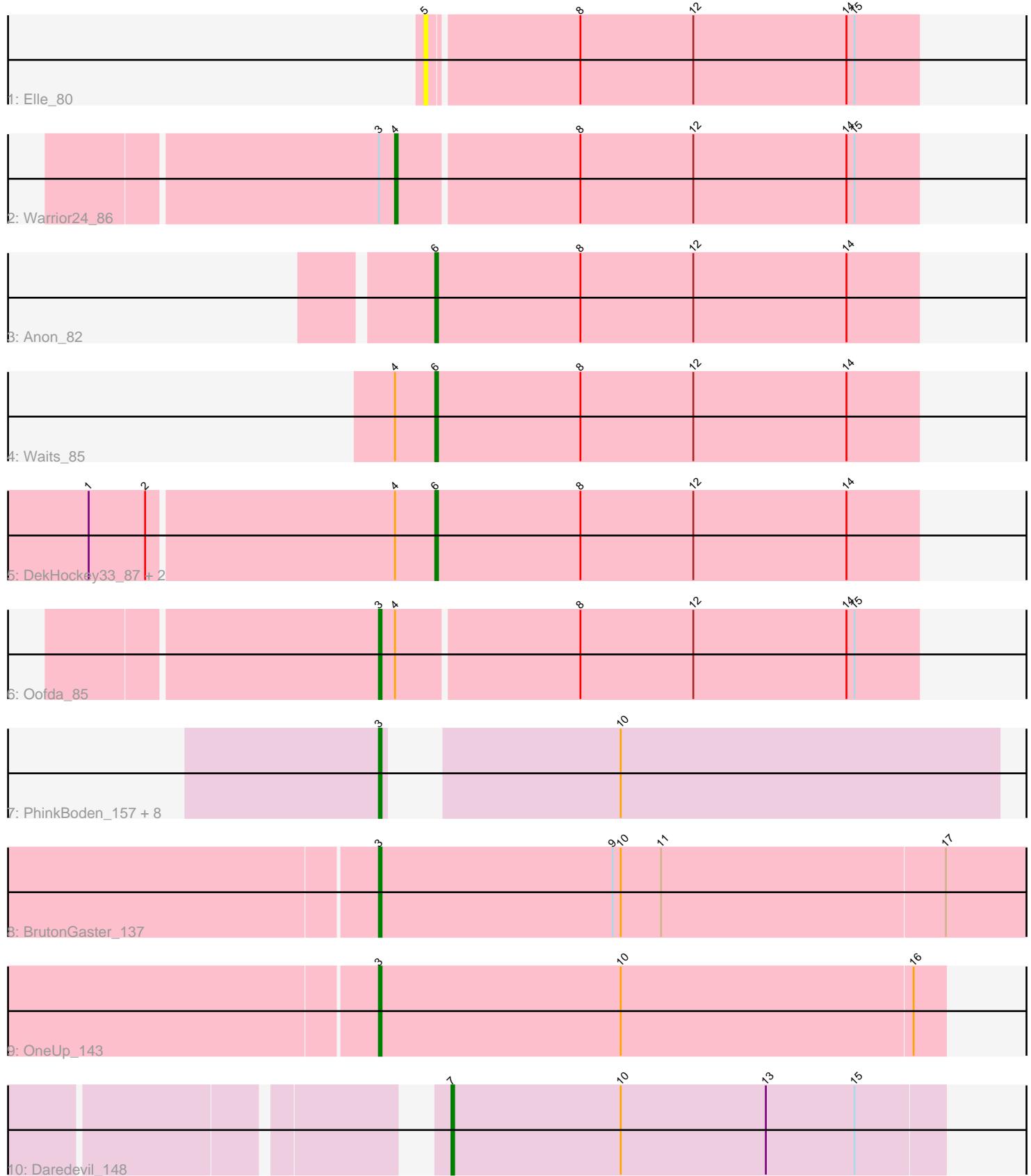


# Pham 280910



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 280910 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280910 has 20 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Elle\_80
- Track 2 : Warrior24\_86
- Track 3 : Anon\_82
- Track 4 : Waits\_85
- Track 5 : DekHockey33\_87, Battleship\_88, MinecraftSteve\_86
- Track 6 : Oofda\_85
- Track 7 : PhinkBoden\_157, Smoothie\_160, Lozinak\_159, Bachita\_162, Norvs\_157, ClubL\_160, Toniann\_159, Abscondus\_157, Cucurbita\_158
- Track 8 : BrutonGaster\_137
- Track 9 : OneUp\_143
- Track 10 : Daredevil\_148

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

Genes that call this "Most Annotated" start:

- Abscondus\_157, Bachita\_162, BrutonGaster\_137, ClubL\_160, Cucurbita\_158, Lozinak\_159, Norvs\_157, OneUp\_143, Oofda\_85, PhinkBoden\_157, Smoothie\_160, Toniann\_159,

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

- Warrior24\_86,

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

- Anon\_82, Battleship\_88, Daredevil\_148, DekHockey33\_87, Elle\_80, MinecraftSteve\_86, Waits\_85,

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

Start 3:

- Found in 13 of 20 ( 65.0% ) of genes in pham
- Manual Annotations of this start: 12 of 19

- Called 92.3% of time when present
- Phage (with cluster) where this start called: Abscondus\_157 (CQ1), Bachita\_162 (CQ1), BrutonGaster\_137 (CQ2), ClubL\_160 (CQ1), Cucurbita\_158 (CQ1), Lozinak\_159 (CQ1), Norvs\_157 (CQ1), OneUp\_143 (CQ2), Oofda\_85 (A15), PhinkBoden\_157 (CQ1), Smoothie\_160 (CQ1), Toniann\_159 (CQ1),

Start 4:

- Found in 6 of 20 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Warrior24\_86 (A15),

Start 5:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elle\_80 (A15),

Start 6:

- Found in 5 of 20 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 5 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon\_82 (A15), Battleship\_88 (A15), DekHockey33\_87 (A15), MinecraftSteve\_86 (A15), Waits\_85 (A15),

Start 7:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil\_148 (DL),

### **Summary by clusters:**

There are 4 clusters represented in this pham: A15, CQ2, CQ1, DL,

Info for manual annotations of cluster A15:

- Start number 3 was manually annotated 1 time for cluster A15.
- Start number 4 was manually annotated 1 time for cluster A15.
- Start number 6 was manually annotated 5 times for cluster A15.

Info for manual annotations of cluster CQ1:

- Start number 3 was manually annotated 9 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

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

Info for manual annotations of cluster DL:

- Start number 7 was manually annotated 1 time for cluster DL.

### **Gene Information:**

Gene: Abscondus\_157 Start: 83676, Stop: 83467, Start Num: 3

Candidate Starts for Abscondus\_157:

(Start: 3 @83676 has 12 MA's), (10, 83607),

Gene: Anon\_82 Start: 46056, Stop: 45877, Start Num: 6

Candidate Starts for Anon\_82:

(Start: 6 @46056 has 5 MA's), (8, 46002), (12, 45960), (14, 45903),

Gene: Bachita\_162 Start: 84716, Stop: 84507, Start Num: 3

Candidate Starts for Bachita\_162:

(Start: 3 @84716 has 12 MA's), (10, 84647),

Gene: Battleship\_88 Start: 46580, Stop: 46401, Start Num: 6

Candidate Starts for Battleship\_88:

(1, 46706), (2, 46685), (Start: 4 @46595 has 1 MA's), (Start: 6 @46580 has 5 MA's), (8, 46526), (12, 46484), (14, 46427),

Gene: BrutonGaster\_137 Start: 79264, Stop: 79013, Start Num: 3

Candidate Starts for BrutonGaster\_137:

(Start: 3 @79264 has 12 MA's), (9, 79177), (10, 79174), (11, 79159), (17, 79054),

Gene: ClubL\_160 Start: 83968, Stop: 83759, Start Num: 3

Candidate Starts for ClubL\_160:

(Start: 3 @83968 has 12 MA's), (10, 83899),

Gene: Cucurbita\_158 Start: 85029, Stop: 84820, Start Num: 3

Candidate Starts for Cucurbita\_158:

(Start: 3 @85029 has 12 MA's), (10, 84960),

Gene: Daredevil\_148 Start: 82356, Stop: 82174, Start Num: 7

Candidate Starts for Daredevil\_148:

(Start: 7 @82356 has 1 MA's), (10, 82293), (13, 82239), (15, 82206),

Gene: DekHockey33\_87 Start: 46665, Stop: 46486, Start Num: 6

Candidate Starts for DekHockey33\_87:

(1, 46791), (2, 46770), (Start: 4 @46680 has 1 MA's), (Start: 6 @46665 has 5 MA's), (8, 46611), (12, 46569), (14, 46512),

Gene: Elle\_80 Start: 45410, Stop: 45231, Start Num: 5

Candidate Starts for Elle\_80:

(5, 45410), (8, 45356), (12, 45314), (14, 45257), (15, 45254),

Gene: Lozinak\_159 Start: 84557, Stop: 84348, Start Num: 3

Candidate Starts for Lozinak\_159:

(Start: 3 @84557 has 12 MA's), (10, 84488),

Gene: MinecraftSteve\_86 Start: 46376, Stop: 46197, Start Num: 6

Candidate Starts for MinecraftSteve\_86:

(1, 46502), (2, 46481), (Start: 4 @46391 has 1 MA's), (Start: 6 @46376 has 5 MA's), (8, 46322), (12, 46280), (14, 46223),

Gene: Norvs\_157 Start: 83748, Stop: 83539, Start Num: 3

Candidate Starts for Norvs\_157:

(Start: 3 @83748 has 12 MA's), (10, 83679),

Gene: OneUp\_143 Start: 83218, Stop: 83009, Start Num: 3

Candidate Starts for OneUp\_143:

(Start: 3 @83218 has 12 MA's), (10, 83128), (16, 83020),

Gene: Oofda\_85 Start: 46370, Stop: 46173, Start Num: 3

Candidate Starts for Oofda\_85:

(Start: 3 @46370 has 12 MA's), (Start: 4 @46364 has 1 MA's), (8, 46298), (12, 46256), (14, 46199), (15, 46196),

Gene: PhinkBoden\_157 Start: 84146, Stop: 83937, Start Num: 3

Candidate Starts for PhinkBoden\_157:

(Start: 3 @84146 has 12 MA's), (10, 84077),

Gene: Smoothie\_160 Start: 84247, Stop: 84038, Start Num: 3

Candidate Starts for Smoothie\_160:

(Start: 3 @84247 has 12 MA's), (10, 84178),

Gene: Toniann\_159 Start: 83889, Stop: 83680, Start Num: 3

Candidate Starts for Toniann\_159:

(Start: 3 @83889 has 12 MA's), (10, 83820),

Gene: Waits\_85 Start: 46310, Stop: 46131, Start Num: 6

Candidate Starts for Waits\_85:

(Start: 4 @46325 has 1 MA's), (Start: 6 @46310 has 5 MA's), (8, 46256), (12, 46214), (14, 46157),

Gene: Warrior24\_86 Start: 46820, Stop: 46629, Start Num: 4

Candidate Starts for Warrior24\_86:

(Start: 3 @46826 has 12 MA's), (Start: 4 @46820 has 1 MA's), (8, 46754), (12, 46712), (14, 46655), (15, 46652),