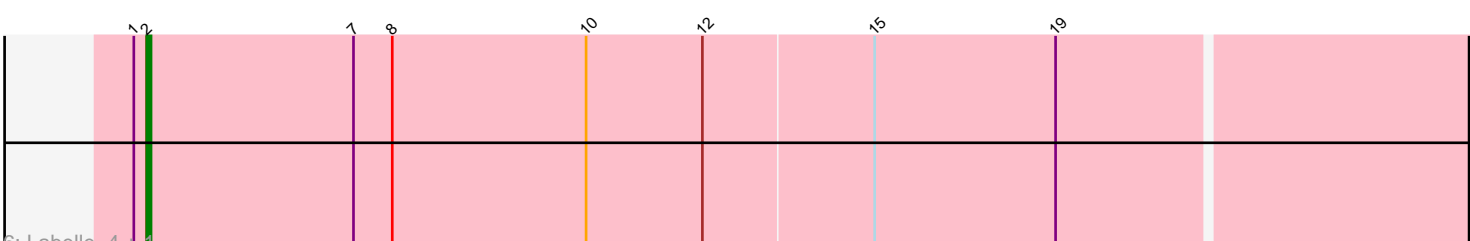
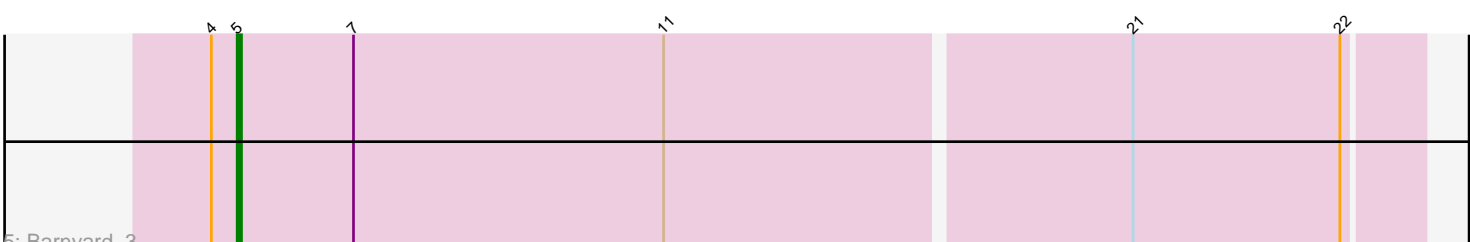
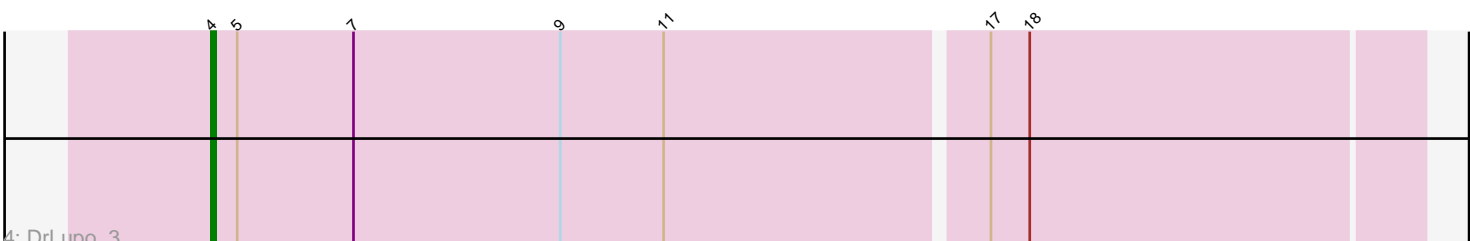
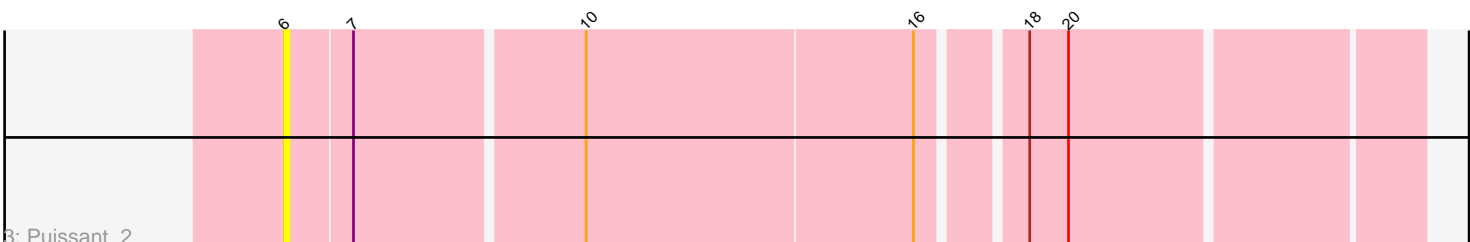
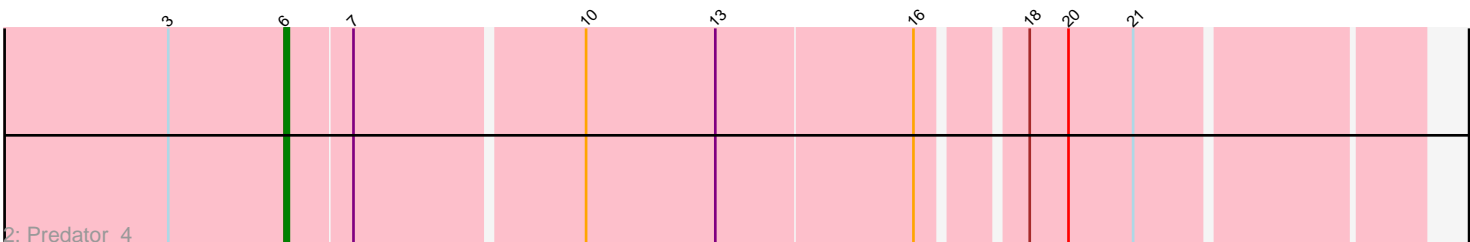
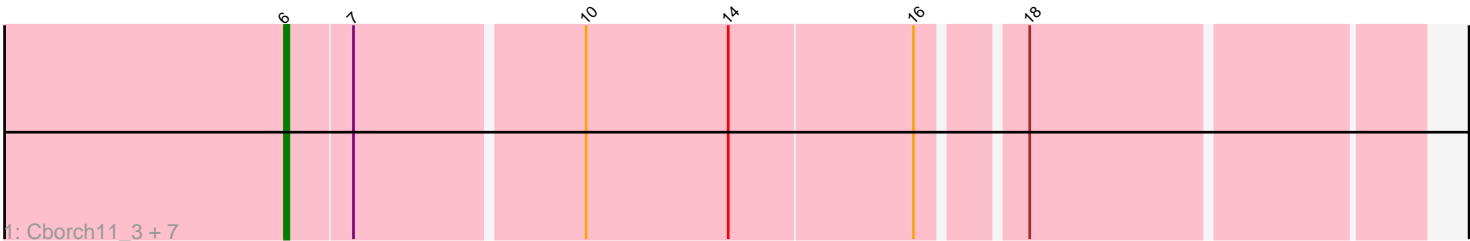


Pham 87280



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 87280 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87280 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Cborch11\_3, Megatron06\_3, Konstantine\_3, Damien\_3, Thumb\_3, Oaker\_3, Phreeze\_3, Beckerton\_3
- Track 2 : Predator\_4
- Track 3 : Puissant\_2
- Track 4 : DrLupo\_3
- Track 5 : Barnyard\_3
- Track 6 : Labelle\_4, Patience\_4

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

The start number called the most often in the published annotations is 6, it was called in 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beckerton\_3, Cborch11\_3, Damien\_3, Konstantine\_3, Megatron06\_3, Oaker\_3, Phreeze\_3, Predator\_4, Puissant\_2, Thumb\_3,

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

- 

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

- Barnyard\_3, DrLupo\_3, Labelle\_4, Patience\_4,

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

Start 2:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Labelle\_4 (U), Patience\_4 (U),

Start 4:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 12

- Called 50.0% of time when present
- Phage (with cluster) where this start called: DrLupo\_3 (H2),

Start 5:

- Found in 2 of 14 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Barnyard\_3 (H2),

Start 6:

- Found in 10 of 14 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 8 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton\_3 (H1), Cborch11\_3 (H1), Damien\_3 (H1), Konstantine\_3 (H1), Megatron06\_3 (H1), Oaker\_3 (H1), Phreeze\_3 (H1), Predator\_4 (H1), Puissant\_2 (H1), Thumb\_3 (H1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: H2, H1, U,

Info for manual annotations of cluster H1:

- Start number 6 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 4 was manually annotated 1 time for cluster H2.
- Start number 5 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster U:

- Start number 2 was manually annotated 2 times for cluster U.

### **Gene Information:**

Gene: Barnyard\_3 Start: 1645, Stop: 1914, Start Num: 5

Candidate Starts for Barnyard\_3:

(Start: 4 @1639 has 1 MA's), (Start: 5 @1645 has 1 MA's), (7, 1672), (11, 1744), (21, 1849), (22, 1897),

Gene: Beckerton\_3 Start: 1682, Stop: 1930, Start Num: 6

Candidate Starts for Beckerton\_3:

(Start: 6 @1682 has 8 MA's), (7, 1697), (10, 1748), (14, 1781), (16, 1823), (18, 1844),

Gene: Cborch11\_3 Start: 1682, Stop: 1930, Start Num: 6

Candidate Starts for Cborch11\_3:

(Start: 6 @1682 has 8 MA's), (7, 1697), (10, 1748), (14, 1781), (16, 1823), (18, 1844),

Gene: Damien\_3 Start: 1682, Stop: 1930, Start Num: 6

Candidate Starts for Damien\_3:

(Start: 6 @1682 has 8 MA's), (7, 1697), (10, 1748), (14, 1781), (16, 1823), (18, 1844),

Gene: DrLupo\_3 Start: 1614, Stop: 1889, Start Num: 4

Candidate Starts for DrLupo\_3:

(Start: 4 @1614 has 1 MA's), (Start: 5 @1620 has 1 MA's), (7, 1647), (9, 1695), (11, 1719), (17, 1791), (18, 1800),

Gene: Konstantine\_3 Start: 1682, Stop: 1930, Start Num: 6

Candidate Starts for Konstantine\_3:

(Start: 6 @1682 has 8 MA's), (7, 1697), (10, 1748), (14, 1781), (16, 1823), (18, 1844),

Gene: Labelle\_4 Start: 2042, Stop: 2350, Start Num: 2

Candidate Starts for Labelle\_4:

(1, 2039), (Start: 2 @2042 has 2 MA's), (7, 2090), (8, 2099), (10, 2144), (12, 2171), (15, 2210), (19, 2252),

Gene: Megatron06\_3 Start: 1682, Stop: 1930, Start Num: 6

Candidate Starts for Megatron06\_3:

(Start: 6 @1682 has 8 MA's), (7, 1697), (10, 1748), (14, 1781), (16, 1823), (18, 1844),

Gene: Oaker\_3 Start: 1682, Stop: 1930, Start Num: 6

Candidate Starts for Oaker\_3:

(Start: 6 @1682 has 8 MA's), (7, 1697), (10, 1748), (14, 1781), (16, 1823), (18, 1844),

Gene: Patience\_4 Start: 2042, Stop: 2350, Start Num: 2

Candidate Starts for Patience\_4:

(1, 2039), (Start: 2 @2042 has 2 MA's), (7, 2090), (8, 2099), (10, 2144), (12, 2171), (15, 2210), (19, 2252),

Gene: Phreeze\_3 Start: 1682, Stop: 1930, Start Num: 6

Candidate Starts for Phreeze\_3:

(Start: 6 @1682 has 8 MA's), (7, 1697), (10, 1748), (14, 1781), (16, 1823), (18, 1844),

Gene: Predator\_4 Start: 2023, Stop: 2271, Start Num: 6

Candidate Starts for Predator\_4:

(3, 1996), (Start: 6 @2023 has 8 MA's), (7, 2038), (10, 2089), (13, 2119), (16, 2164), (18, 2185), (20, 2194), (21, 2209),

Gene: Puissant\_2 Start: 1683, Stop: 1931, Start Num: 6

Candidate Starts for Puissant\_2:

(Start: 6 @1683 has 8 MA's), (7, 1698), (10, 1749), (16, 1824), (18, 1845), (20, 1854),

Gene: Thumb\_3 Start: 1682, Stop: 1930, Start Num: 6

Candidate Starts for Thumb\_3:

(Start: 6 @1682 has 8 MA's), (7, 1697), (10, 1748), (14, 1781), (16, 1823), (18, 1844),