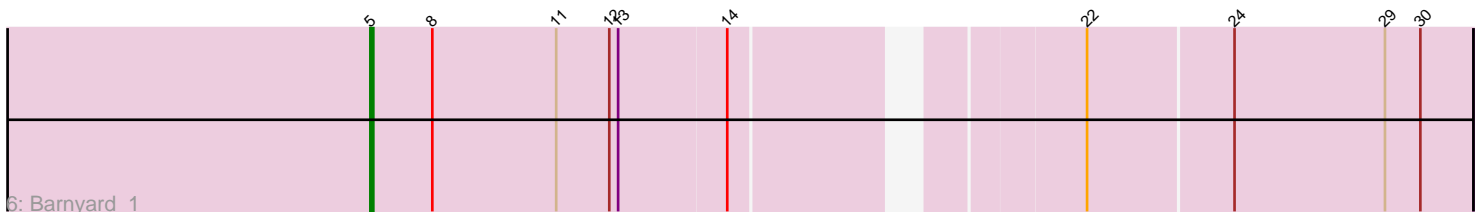
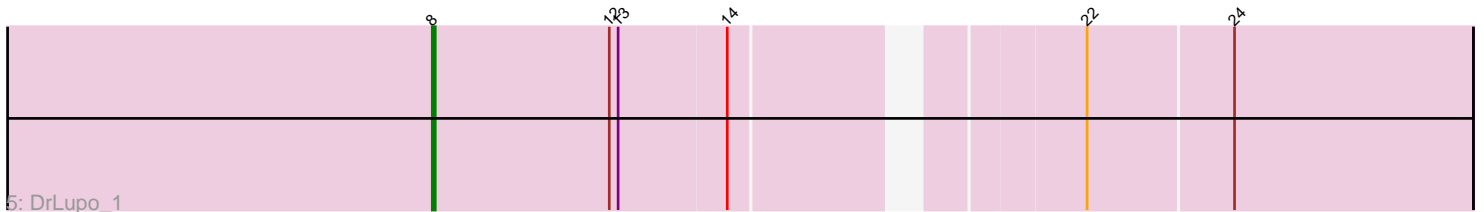
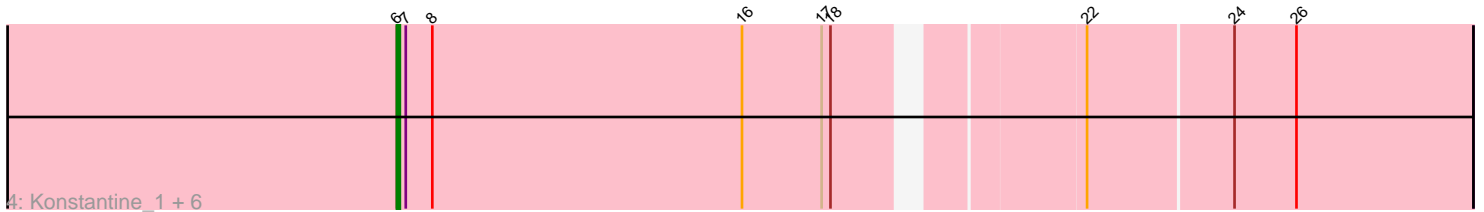
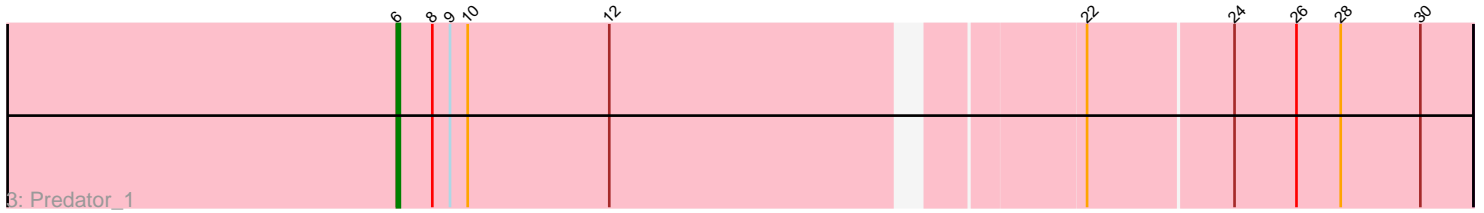
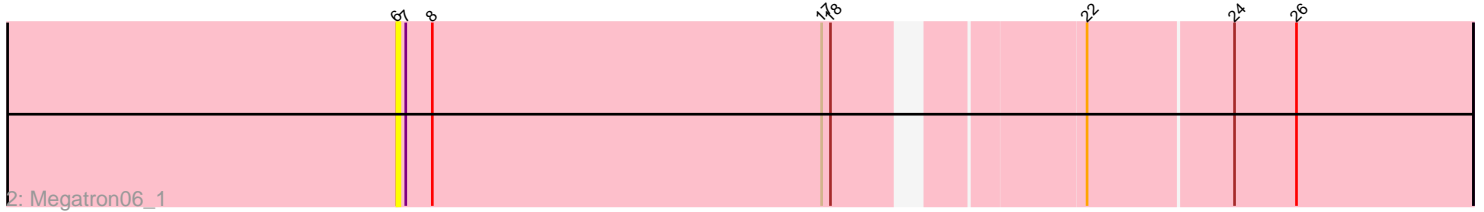
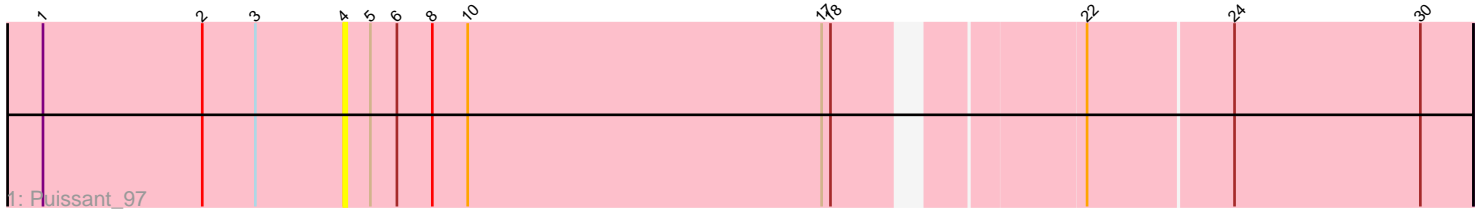


# Pham 164015



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 164015 Report

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

Pham number 164015 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Puissant\_97
- Track 2 : Megatron06\_1
- Track 3 : Predator\_1
- Track 4 : Konstantine\_1, Beckerton\_1, Thumb\_1, Cborch11\_1, Damien\_1, Oaker\_1, Phreeze\_1
- Track 5 : DrLupo\_1
- Track 6 : Barnyard\_1
- Track 7 : Labelle\_1, Madruga\_1, Patience\_1

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

Genes that call this "Most Annotated" start:

- Beckerton\_1, Cborch11\_1, Damien\_1, Konstantine\_1, Megatron06\_1, Oaker\_1, Phreeze\_1, Predator\_1, Thumb\_1,

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

- Puissant\_97,

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

- Barnyard\_1, DrLupo\_1, Labelle\_1, Madruga\_1, Patience\_1,

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

Start 4:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Puissant\_97 (H1),

Start 5:

- Found in 2 of 15 ( 13.3% ) of genes in pham

- Manual Annotations of this start: 1 of 13
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Barnyard\_1 (H2),

Start 6:

- Found in 10 of 15 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 8 of 13
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Beckerton\_1 (H1), Cborch11\_1 (H1), Damien\_1 (H1), Konstantine\_1 (H1), Megatron06\_1 (H1), Oaker\_1 (H1), Phreeze\_1 (H1), Predator\_1 (H1), Thumb\_1 (H1),

Start 8:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 13
- Called 26.7% of time when present
- Phage (with cluster) where this start called: DrLupo\_1 (H2), Labelle\_1 (U), Madrug\_1 (U), Patience\_1 (U),

### **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 5 was manually annotated 1 time for cluster H2.
- Start number 8 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster U:

- Start number 8 was manually annotated 3 times for cluster U.

### **Gene Information:**

Gene: Barnyard\_1 Start: 1, Stop: 351, Start Num: 5

Candidate Starts for Barnyard\_1:

(Start: 5 @1 has 1 MA's), (Start: 8 @22 has 4 MA's), (11, 64), (12, 82), (13, 85), (14, 121), (22, 223), (24, 271), (29, 322), (30, 334),

Gene: Beckerton\_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Beckerton\_1:

(Start: 6 @1 has 8 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Cborch11\_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Cborch11\_1:

(Start: 6 @1 has 8 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Damien\_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Damien\_1:

(Start: 6 @1 has 8 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: DrLupo\_1 Start: 1, Stop: 330, Start Num: 8

Candidate Starts for DrLupo\_1:

(Start: 8 @1 has 4 MA's), (12, 61), (13, 64), (14, 100), (22, 202), (24, 250),

Gene: Konstantine\_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Konstantine\_1:

(Start: 6 @1 has 8 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Labelle\_1 Start: 1, Stop: 351, Start Num: 8

Candidate Starts for Labelle\_1:

(Start: 8 @1 has 4 MA's), (15, 103), (19, 163), (20, 187), (21, 214), (22, 223), (23, 232), (25, 274), (27, 304), (30, 334),

Gene: Madrugua\_1 Start: 1, Stop: 351, Start Num: 8

Candidate Starts for Madrugua\_1:

(Start: 8 @1 has 4 MA's), (15, 103), (19, 163), (20, 187), (21, 214), (22, 223), (23, 232), (25, 274), (27, 304), (30, 334),

Gene: Megatron06\_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Megatron06\_1:

(Start: 6 @1 has 8 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Oaker\_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Oaker\_1:

(Start: 6 @1 has 8 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Patience\_1 Start: 1, Stop: 351, Start Num: 8

Candidate Starts for Patience\_1:

(Start: 8 @1 has 4 MA's), (15, 103), (19, 163), (20, 187), (21, 214), (22, 223), (23, 232), (25, 274), (27, 304), (30, 334),

Gene: Phreeze\_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Phreeze\_1:

(Start: 6 @1 has 8 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220), (24, 268), (26, 289),

Gene: Predator\_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Predator\_1:

(Start: 6 @1 has 8 MA's), (Start: 8 @13 has 4 MA's), (9, 19), (10, 25), (12, 73), (22, 220), (24, 268), (26, 289), (28, 304), (30, 331),

Gene: Puissant\_97 Start: 69332, Stop: 348, Start Num: 4

Candidate Starts for Puissant\_97:

(1, 69230), (2, 69284), (3, 69302), (4, 69332), (Start: 5 @69341 has 1 MA's), (Start: 6 @69350 has 8 MA's), (Start: 8 @69362 has 4 MA's), (10, 69374), (17, 69494), (18, 69497), (22, 69569), (24, 69617), (30, 69680),

Gene: Thumb\_1 Start: 1, Stop: 348, Start Num: 6

Candidate Starts for Thumb\_1:

(Start: 6 @1 has 8 MA's), (7, 4), (Start: 8 @13 has 4 MA's), (16, 118), (17, 145), (18, 148), (22, 220),  
(24, 268), (26, 289),