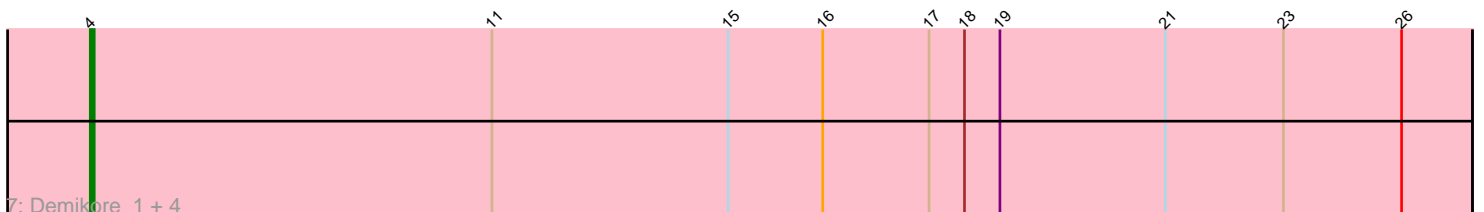
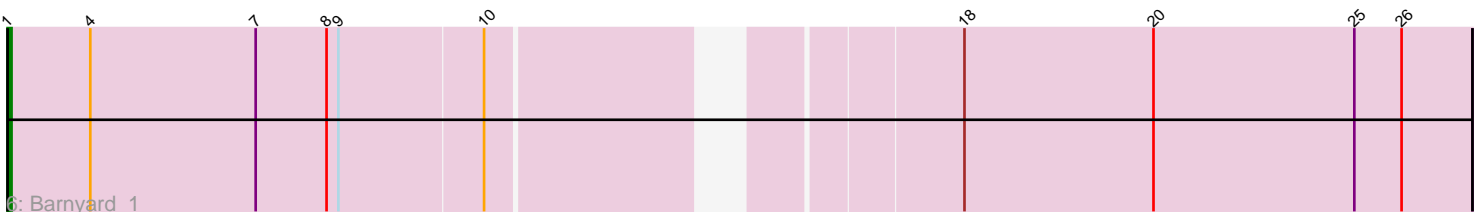
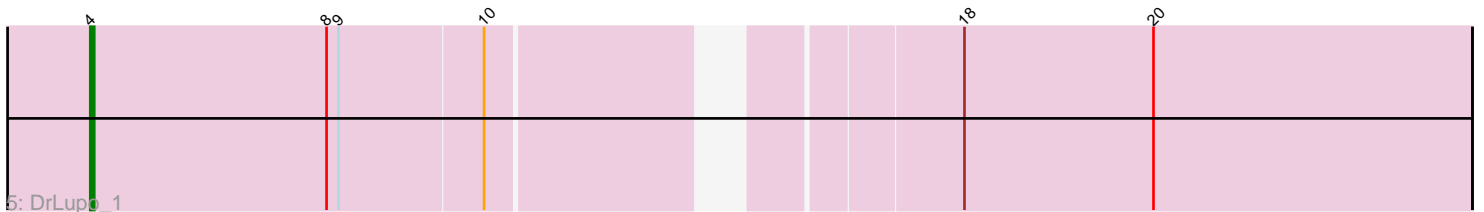
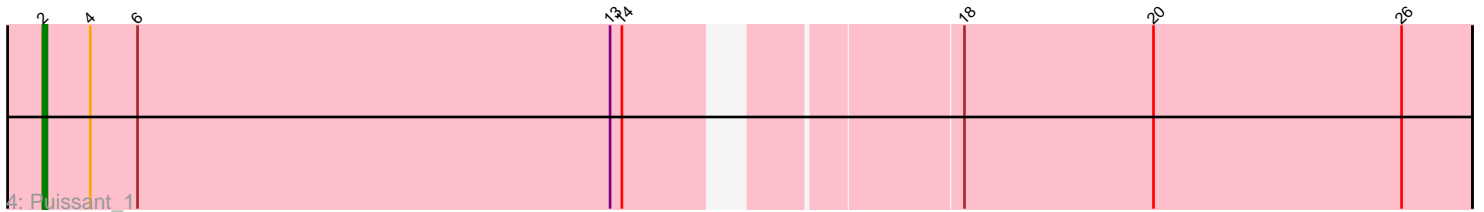
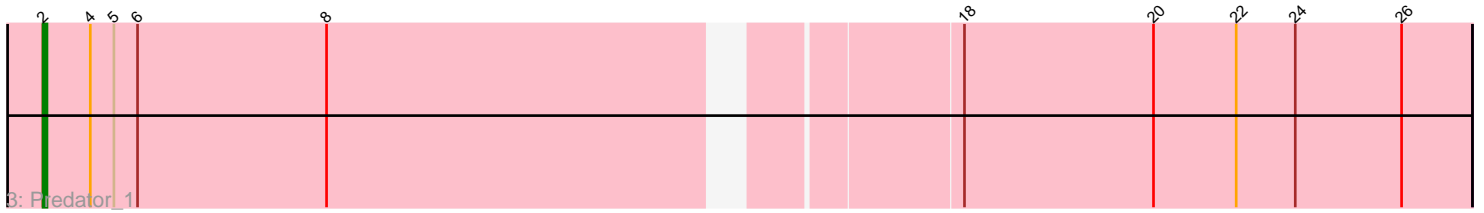
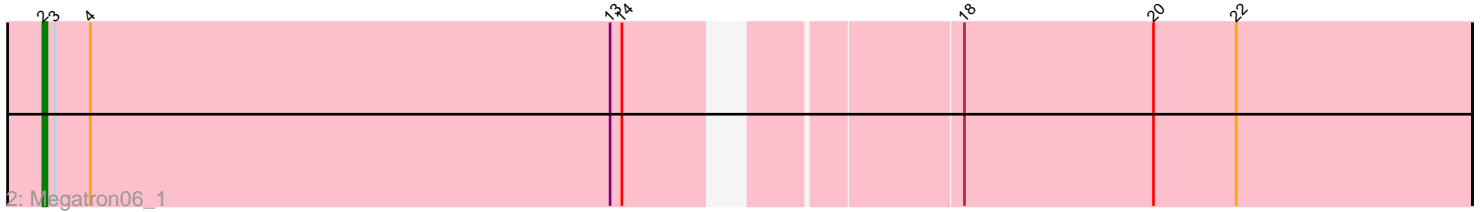
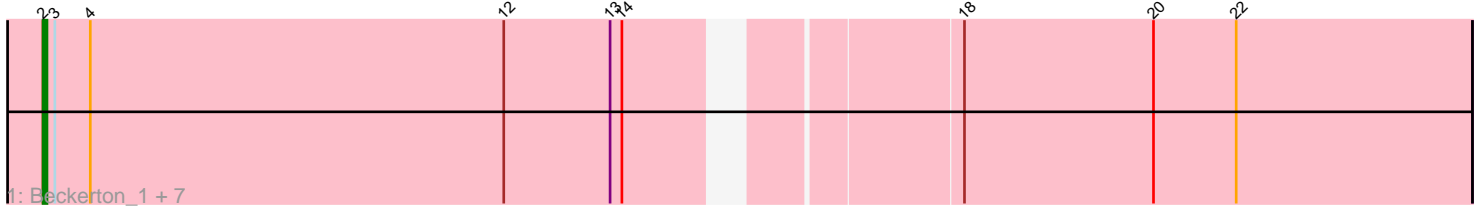


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 305363 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305363 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Beckerton\_1, Konstantine\_1, BobtimousPrime\_1, Thumb\_1, Cborch11\_1, Damien\_1, Oaker\_1, Phreeze\_1
- Track 2 : Megatron06\_1
- Track 3 : Predator\_1
- Track 4 : Puissant\_1
- Track 5 : DrLupo\_1
- Track 6 : Barnyard\_1
- Track 7 : Demikore\_1, Labelle\_1, SuperSonics\_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 2, it was called in 11 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

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

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

- 

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

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

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

Start 1:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard\_1 (H2),

Start 2:

- Found in 11 of 18 ( 61.1% ) of genes in pham
- Manual Annotations of this start: 11 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton\_1 (H1), BobtimousPrime\_1 (H1), Cborch11\_1 (H1), Damien\_1 (H1), Konstantine\_1 (H1), Megatron06\_1 (H1), Oaker\_1 (H1), Phreeze\_1 (H1), Predator\_1 (H1), Puissant\_1 (H1), Thumb\_1 (H1),

Start 4:

- Found in 18 of 18 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 16
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Demikore\_1 (U), DrLupo\_1 (H2), Labelle\_1 (U), Madruga\_1 (U), Patience\_1 (U), SuperSonics\_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 2 was manually annotated 11 times for cluster H1.

Info for manual annotations of cluster H2:

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

Info for manual annotations of cluster U:

- Start number 4 was manually annotated 3 times for cluster U.

### **Gene Information:**

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

Candidate Starts for Barnyard\_1:

(Start: 1 @1 has 1 MA's), (Start: 4 @22 has 4 MA's), (7, 64), (8, 82), (9, 85), (10, 121), (18, 223), (20, 271), (25, 322), (26, 334),

Gene: Beckerton\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Beckerton\_1:

(Start: 2 @1 has 11 MA's), (3, 4), (Start: 4 @13 has 4 MA's), (12, 118), (13, 145), (14, 148), (18, 220), (20, 268), (22, 289),

Gene: BobtimousPrime\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for BobtimousPrime\_1:

(Start: 2 @1 has 11 MA's), (3, 4), (Start: 4 @13 has 4 MA's), (12, 118), (13, 145), (14, 148), (18, 220), (20, 268), (22, 289),

Gene: Cborch11\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Cborch11\_1:

(Start: 2 @1 has 11 MA's), (3, 4), (Start: 4 @13 has 4 MA's), (12, 118), (13, 145), (14, 148), (18, 220), (20, 268), (22, 289),

Gene: Damien\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Damien\_1:

(Start: 2 @1 has 11 MA's), (3, 4), (Start: 4 @13 has 4 MA's), (12, 118), (13, 145), (14, 148), (18, 220), (20, 268), (22, 289),

Gene: Demikore\_1 Start: 1, Stop: 351, Start Num: 4

Candidate Starts for Demikore\_1:

(Start: 4 @1 has 4 MA's), (11, 103), (15, 163), (16, 187), (17, 214), (18, 223), (19, 232), (21, 274), (23, 304), (26, 334),

Gene: DrLupo\_1 Start: 1, Stop: 330, Start Num: 4

Candidate Starts for DrLupo\_1:

(Start: 4 @1 has 4 MA's), (8, 61), (9, 64), (10, 100), (18, 202), (20, 250),

Gene: Konstantine\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Konstantine\_1:

(Start: 2 @1 has 11 MA's), (3, 4), (Start: 4 @13 has 4 MA's), (12, 118), (13, 145), (14, 148), (18, 220), (20, 268), (22, 289),

Gene: Labelle\_1 Start: 1, Stop: 351, Start Num: 4

Candidate Starts for Labelle\_1:

(Start: 4 @1 has 4 MA's), (11, 103), (15, 163), (16, 187), (17, 214), (18, 223), (19, 232), (21, 274), (23, 304), (26, 334),

Gene: Madrugua\_1 Start: 1, Stop: 351, Start Num: 4

Candidate Starts for Madrugua\_1:

(Start: 4 @1 has 4 MA's), (11, 103), (15, 163), (16, 187), (17, 214), (18, 223), (19, 232), (21, 274), (23, 304), (26, 334),

Gene: Megatron06\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Megatron06\_1:

(Start: 2 @1 has 11 MA's), (3, 4), (Start: 4 @13 has 4 MA's), (13, 145), (14, 148), (18, 220), (20, 268), (22, 289),

Gene: Oaker\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Oaker\_1:

(Start: 2 @1 has 11 MA's), (3, 4), (Start: 4 @13 has 4 MA's), (12, 118), (13, 145), (14, 148), (18, 220), (20, 268), (22, 289),

Gene: Patience\_1 Start: 1, Stop: 351, Start Num: 4

Candidate Starts for Patience\_1:

(Start: 4 @1 has 4 MA's), (11, 103), (15, 163), (16, 187), (17, 214), (18, 223), (19, 232), (21, 274), (23, 304), (26, 334),

Gene: Phreeze\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Phreeze\_1:

(Start: 2 @1 has 11 MA's), (3, 4), (Start: 4 @13 has 4 MA's), (12, 118), (13, 145), (14, 148), (18, 220), (20, 268), (22, 289),

Gene: Predator\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Predator\_1:

(Start: 2 @1 has 11 MA's), (Start: 4 @13 has 4 MA's), (5, 19), (6, 25), (8, 73), (18, 220), (20, 268), (22, 289), (24, 304), (26, 331),

Gene: Puissant\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Puissant\_1:

(Start: 2 @1 has 11 MA's), (Start: 4 @13 has 4 MA's), (6, 25), (13, 145), (14, 148), (18, 220), (20, 268), (26, 331),

Gene: SuperSonics\_1 Start: 1, Stop: 351, Start Num: 4

Candidate Starts for SuperSonics\_1:

(Start: 4 @1 has 4 MA's), (11, 103), (15, 163), (16, 187), (17, 214), (18, 223), (19, 232), (21, 274), (23, 304), (26, 334),

Gene: Thumb\_1 Start: 1, Stop: 348, Start Num: 2

Candidate Starts for Thumb\_1:

(Start: 2 @1 has 11 MA's), (3, 4), (Start: 4 @13 has 4 MA's), (12, 118), (13, 145), (14, 148), (18, 220), (20, 268), (22, 289),