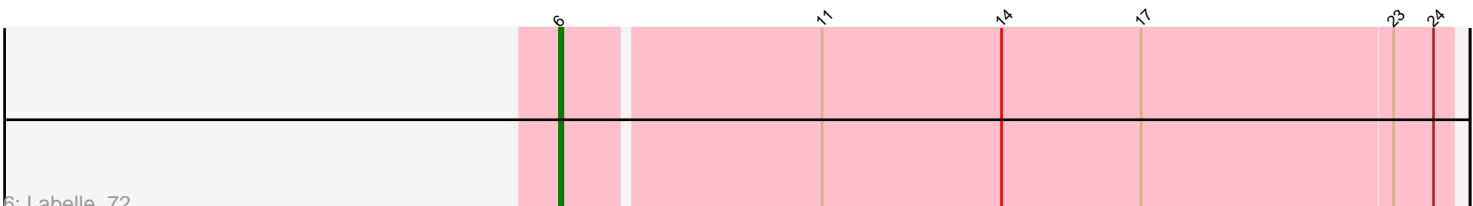
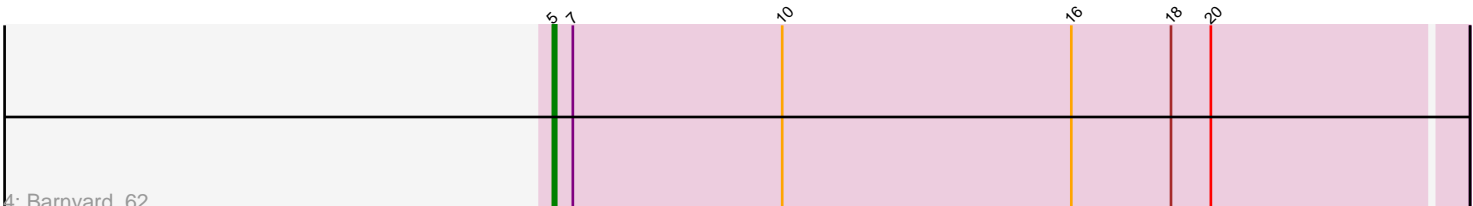
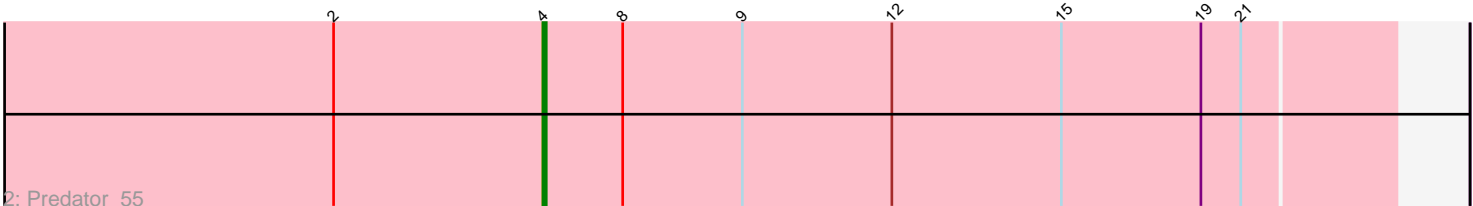
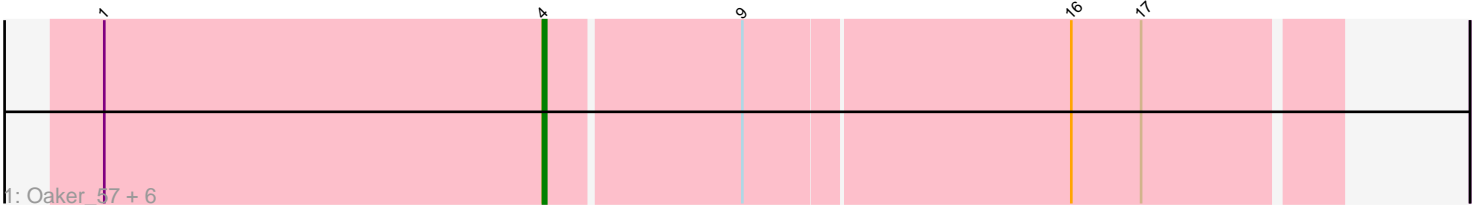


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 87289 Report

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

Pham number 87289 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Oaker\_57, Beckerton\_57, Cborch11\_60, Konstantine\_62, Megatron06\_61, Phreeze\_57, Thumb\_59
- Track 2 : Predator\_55
- Track 3 : DrLupo\_62
- Track 4 : Barnyard\_62
- Track 5 : Madruga\_70
- Track 6 : Labelle\_72
- Track 7 : Patience\_72

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beckerton\_57, Cborch11\_60, Konstantine\_62, Megatron06\_61, Oaker\_57, Phreeze\_57, Predator\_55, Thumb\_59,

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

- 

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

- Barnyard\_62, DrLupo\_62, Labelle\_72, Madruga\_70, Patience\_72,

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

Start 3:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrLupo\_62 (H2),

Start 4:

- Found in 8 of 13 ( 61.5% ) of genes in pham

- Manual Annotations of this start: 7 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton\_57 (H1), Cborch11\_60 (H1), Konstantine\_62 (H1), Megatron06\_61 (H1), Oaker\_57 (H1), Phreeze\_57 (H1), Predator\_55 (H1), Thumb\_59 (H1),

Start 5:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard\_62 (H2),

Start 6:

- Found in 3 of 13 ( 23.1% ) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Labelle\_72 (U), Madruga\_70 (U), Patience\_72 (U),

### **Summary by clusters:**

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

Info for manual annotations of cluster H1:

- Start number 4 was manually annotated 7 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 3 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 6 was manually annotated 3 times for cluster U.

### **Gene Information:**

Gene: Barnyard\_62 Start: 44007, Stop: 44279, Start Num: 5

Candidate Starts for Barnyard\_62:

(Start: 5 @44007 has 1 MA's), (7, 44013), (10, 44076), (16, 44163), (18, 44193), (20, 44205),

Gene: Beckerton\_57 Start: 45436, Stop: 45666, Start Num: 4

Candidate Starts for Beckerton\_57:

(1, 45304), (Start: 4 @45436 has 7 MA's), (9, 45493), (16, 45589), (17, 45610),

Gene: Cborch11\_60 Start: 44954, Stop: 45184, Start Num: 4

Candidate Starts for Cborch11\_60:

(1, 44822), (Start: 4 @44954 has 7 MA's), (9, 45011), (16, 45107), (17, 45128),

Gene: DrLupo\_62 Start: 44089, Stop: 44388, Start Num: 3

Candidate Starts for DrLupo\_62:

(Start: 3 @44089 has 1 MA's), (7, 44119), (16, 44269), (18, 44299), (22, 44323),

Gene: Konstantine\_62 Start: 45747, Stop: 45977, Start Num: 4

Candidate Starts for Konstantine\_62:

(1, 45615), (Start: 4 @45747 has 7 MA's), (9, 45804), (16, 45900), (17, 45921),

Gene: Labelle\_72 Start: 47514, Stop: 47777, Start Num: 6

Candidate Starts for Labelle\_72:

(Start: 6 @47514 has 3 MA's), (11, 47589), (14, 47643), (17, 47685), (23, 47760), (24, 47772),

Gene: Madruga\_70 Start: 47164, Stop: 47427, Start Num: 6

Candidate Starts for Madruga\_70:

(Start: 6 @47164 has 3 MA's), (11, 47239), (13, 47281), (14, 47293), (16, 47314), (17, 47335), (23, 47410), (24, 47422),

Gene: Megatron06\_61 Start: 45493, Stop: 45723, Start Num: 4

Candidate Starts for Megatron06\_61:

(1, 45361), (Start: 4 @45493 has 7 MA's), (9, 45550), (16, 45646), (17, 45667),

Gene: Oaker\_57 Start: 45208, Stop: 45438, Start Num: 4

Candidate Starts for Oaker\_57:

(1, 45076), (Start: 4 @45208 has 7 MA's), (9, 45265), (16, 45361), (17, 45382),

Gene: Patience\_72 Start: 48058, Stop: 48321, Start Num: 6

Candidate Starts for Patience\_72:

(Start: 6 @48058 has 3 MA's), (11, 48133), (13, 48175), (14, 48187), (17, 48229), (23, 48304), (24, 48316),

Gene: Phreeze\_57 Start: 44513, Stop: 44743, Start Num: 4

Candidate Starts for Phreeze\_57:

(1, 44381), (Start: 4 @44513 has 7 MA's), (9, 44570), (16, 44666), (17, 44687),

Gene: Predator\_55 Start: 42802, Stop: 43056, Start Num: 4

Candidate Starts for Predator\_55:

(2, 42739), (Start: 4 @42802 has 7 MA's), (8, 42826), (9, 42862), (12, 42907), (15, 42958), (19, 43000), (21, 43012),

Gene: Thumb\_59 Start: 44948, Stop: 45178, Start Num: 4

Candidate Starts for Thumb\_59:

(1, 44816), (Start: 4 @44948 has 7 MA's), (9, 45005), (16, 45101), (17, 45122),