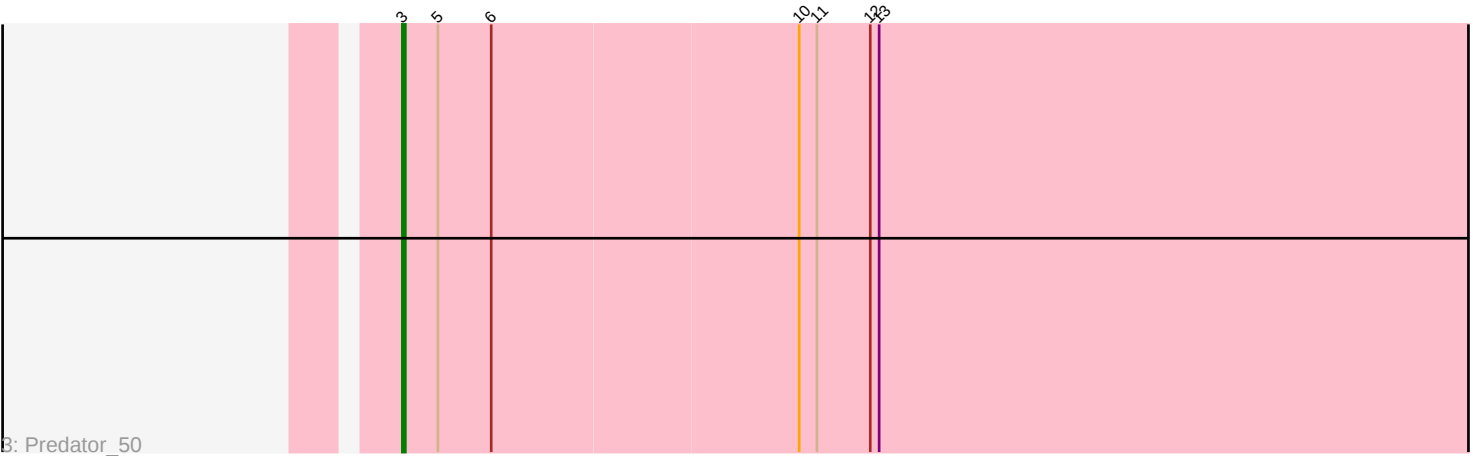
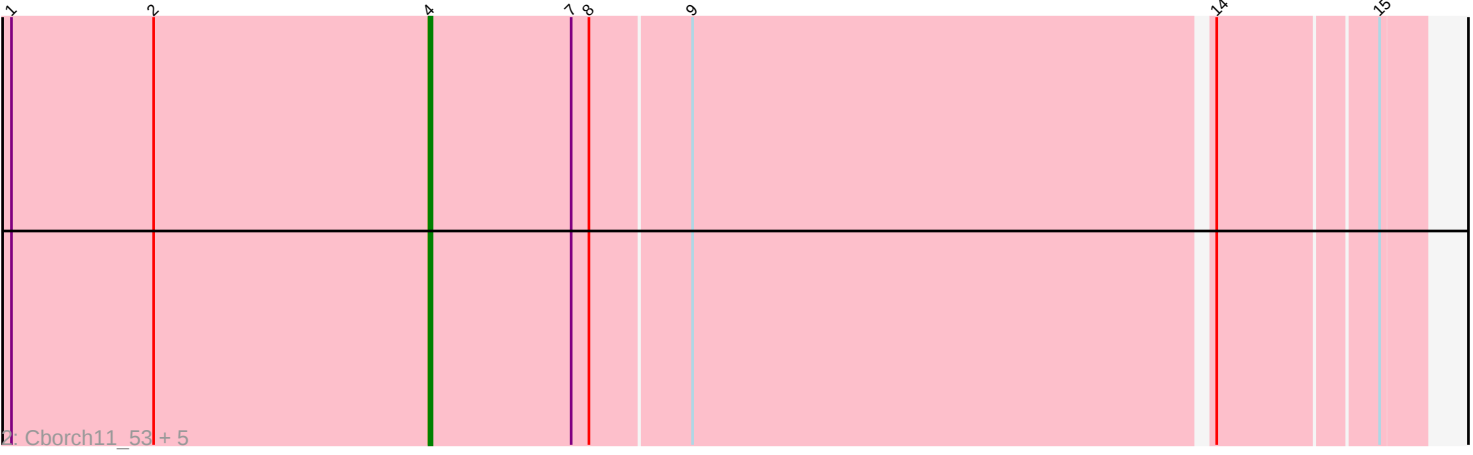
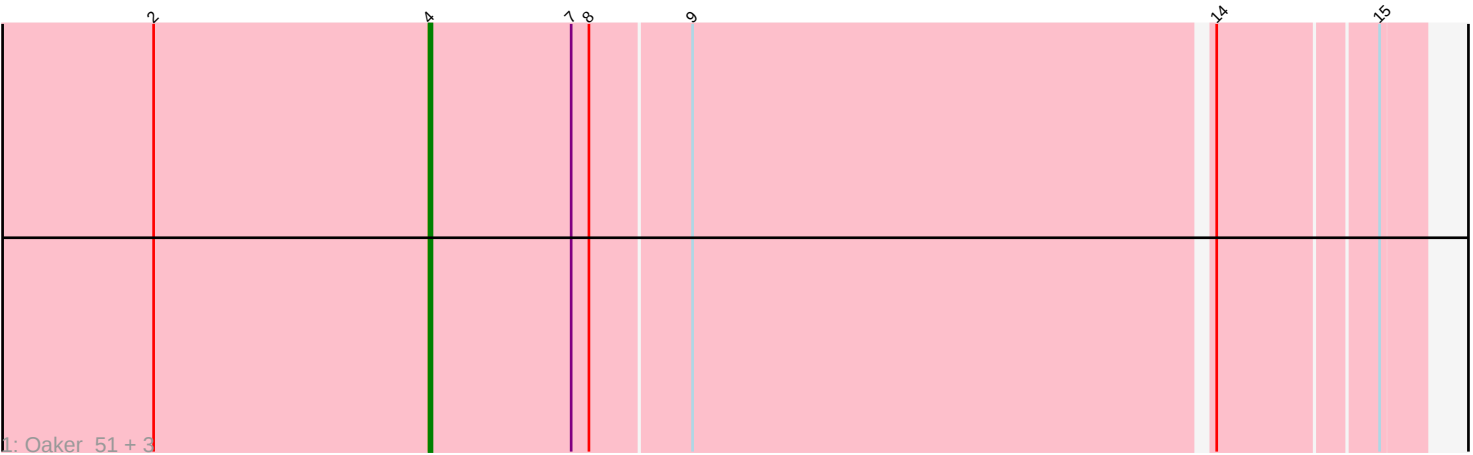




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 309725 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309725 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Oaker_51, Megatron06_53, Thumb_52, Damien_52
- Track 2 : Cborch11_53, BobtimousPrime_53, Beckerton_51, Konstantine_55, Phreeze_50, Nish23_54
- Track 3 : Predator_50

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 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beckerton_51, BobtimousPrime_53, Cborch11_53, Damien_52, Konstantine_55, Megatron06_53, Nish23_54, Oaker_51, Phreeze_50, Thumb_52,

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

-

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

- Predator_50,

Summary by start number:

Start 3:

- Found in 1 of 11 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Predator_50 (H1),

Start 4:

- Found in 10 of 11 (90.9%) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_51 (H1), BobtimousPrime_53 (H1), Cborch11_53 (H1), Damien_52 (H1), Konstantine_55 (H1), Megatron06_53

(H1), Nish23_54 (H1), Oaker_51 (H1), Phreeze_50 (H1), Thumb_52 (H1),

Summary by clusters:

There is one cluster represented in this pham: H1

Info for manual annotations of cluster H1:

- Start number 3 was manually annotated 1 time for cluster H1.
- Start number 4 was manually annotated 9 times for cluster H1.

Gene Information:

Gene: Beckerton_51 Start: 42301, Stop: 42624, Start Num: 4

Candidate Starts for Beckerton_51:

(1, 42160), (2, 42208), (Start: 4 @42301 has 9 MA's), (7, 42349), (8, 42355), (9, 42388), (14, 42559), (15, 42610),

Gene: BobtimousPrime_53 Start: 42263, Stop: 42586, Start Num: 4

Candidate Starts for BobtimousPrime_53:

(1, 42122), (2, 42170), (Start: 4 @42263 has 9 MA's), (7, 42311), (8, 42317), (9, 42350), (14, 42521), (15, 42572),

Gene: Cborch11_53 Start: 41817, Stop: 42140, Start Num: 4

Candidate Starts for Cborch11_53:

(1, 41676), (2, 41724), (Start: 4 @41817 has 9 MA's), (7, 41865), (8, 41871), (9, 41904), (14, 42075), (15, 42126),

Gene: Damien_52 Start: 41780, Stop: 42103, Start Num: 4

Candidate Starts for Damien_52:

(2, 41687), (Start: 4 @41780 has 9 MA's), (7, 41828), (8, 41834), (9, 41867), (14, 42038), (15, 42089),

Gene: Konstantine_55 Start: 42611, Stop: 42934, Start Num: 4

Candidate Starts for Konstantine_55:

(1, 42470), (2, 42518), (Start: 4 @42611 has 9 MA's), (7, 42659), (8, 42665), (9, 42698), (14, 42869), (15, 42920),

Gene: Megatron06_53 Start: 42357, Stop: 42680, Start Num: 4

Candidate Starts for Megatron06_53:

(2, 42264), (Start: 4 @42357 has 9 MA's), (7, 42405), (8, 42411), (9, 42444), (14, 42615), (15, 42666),

Gene: Nish23_54 Start: 41817, Stop: 42140, Start Num: 4

Candidate Starts for Nish23_54:

(1, 41676), (2, 41724), (Start: 4 @41817 has 9 MA's), (7, 41865), (8, 41871), (9, 41904), (14, 42075), (15, 42126),

Gene: Oaker_51 Start: 42072, Stop: 42395, Start Num: 4

Candidate Starts for Oaker_51:

(2, 41979), (Start: 4 @42072 has 9 MA's), (7, 42120), (8, 42126), (9, 42159), (14, 42330), (15, 42381),

Gene: Phreeze_50 Start: 41377, Stop: 41700, Start Num: 4

Candidate Starts for Phreeze_50:

(1, 41236), (2, 41284), (Start: 4 @41377 has 9 MA's), (7, 41425), (8, 41431), (9, 41464), (14, 41635), (15, 41686),

Gene: Predator_50 Start: 39657, Stop: 40019, Start Num: 3

Candidate Starts for Predator_50:

(Start: 3 @39657 has 1 MA's), (5, 39669), (6, 39687), (10, 39789), (11, 39795), (12, 39813), (13, 39816),

Gene: Thumb_52 Start: 41812, Stop: 42135, Start Num: 4

Candidate Starts for Thumb_52:

(2, 41719), (Start: 4 @41812 has 9 MA's), (7, 41860), (8, 41866), (9, 41899), (14, 42070), (15, 42121),