



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 218578 Report

This analysis was run 03/28/25 on database version 593.

Pham number 218578 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Cborch11\_46, Oaker\_44, Thumb\_45, Megatron06\_46
- Track 2 : Konstantine\_48, Phreeze\_43, Beckerton\_44
- Track 3 : Damien\_45

### ***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 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beckerton\_44, Cborch11\_46, Konstantine\_48, Megatron06\_46, Oaker\_44, Phreeze\_43, Thumb\_45,

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

- Damien\_45,

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

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

Start 2:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Beckerton\_44 (H1), Cborch11\_46 (H1), Konstantine\_48 (H1), Megatron06\_46 (H1), Oaker\_44 (H1), Phreeze\_43 (H1), Thumb\_45 (H1),

Start 3:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Damien\_45 (H1),

## Summary by clusters:

There is one cluster represented in this pham: H1

Info for manual annotations of cluster H1:

- Start number 2 was manually annotated 7 times for cluster H1.
- Start number 3 was manually annotated 1 time for cluster H1.

### **Gene Information:**

Gene: Beckerton\_44 Start: 39490, Stop: 39768, Start Num: 2

Candidate Starts for Beckerton\_44:

(1, 39379), (Start: 2 @39490 has 7 MA's), (Start: 3 @39496 has 1 MA's), (4, 39592), (5, 39607), (6, 39628), (7, 39670), (8, 39718), (10, 39745),

Gene: Cborch11\_46 Start: 39003, Stop: 39281, Start Num: 2

Candidate Starts for Cborch11\_46:

(1, 38892), (Start: 2 @39003 has 7 MA's), (Start: 3 @39009 has 1 MA's), (4, 39105), (5, 39120), (6, 39141), (7, 39183), (8, 39231), (9, 39249), (10, 39258),

Gene: Damien\_45 Start: 38971, Stop: 39243, Start Num: 3

Candidate Starts for Damien\_45:

(1, 38854), (Start: 2 @38965 has 7 MA's), (Start: 3 @38971 has 1 MA's), (4, 39067), (5, 39082), (6, 39103), (7, 39145), (9, 39211), (10, 39220),

Gene: Konstantine\_48 Start: 39800, Stop: 40078, Start Num: 2

Candidate Starts for Konstantine\_48:

(1, 39689), (Start: 2 @39800 has 7 MA's), (Start: 3 @39806 has 1 MA's), (4, 39902), (5, 39917), (6, 39938), (7, 39980), (8, 40028), (10, 40055),

Gene: Megatron06\_46 Start: 39541, Stop: 39819, Start Num: 2

Candidate Starts for Megatron06\_46:

(1, 39430), (Start: 2 @39541 has 7 MA's), (Start: 3 @39547 has 1 MA's), (4, 39643), (5, 39658), (6, 39679), (7, 39721), (8, 39769), (9, 39787), (10, 39796),

Gene: Oaker\_44 Start: 39256, Stop: 39534, Start Num: 2

Candidate Starts for Oaker\_44:

(1, 39145), (Start: 2 @39256 has 7 MA's), (Start: 3 @39262 has 1 MA's), (4, 39358), (5, 39373), (6, 39394), (7, 39436), (8, 39484), (9, 39502), (10, 39511),

Gene: Phreeze\_43 Start: 38566, Stop: 38844, Start Num: 2

Candidate Starts for Phreeze\_43:

(1, 38455), (Start: 2 @38566 has 7 MA's), (Start: 3 @38572 has 1 MA's), (4, 38668), (5, 38683), (6, 38704), (7, 38746), (8, 38794), (10, 38821),

Gene: Thumb\_45 Start: 38998, Stop: 39276, Start Num: 2

Candidate Starts for Thumb\_45:

(1, 38887), (Start: 2 @38998 has 7 MA's), (Start: 3 @39004 has 1 MA's), (4, 39100), (5, 39115), (6, 39136), (7, 39178), (8, 39226), (9, 39244), (10, 39253),