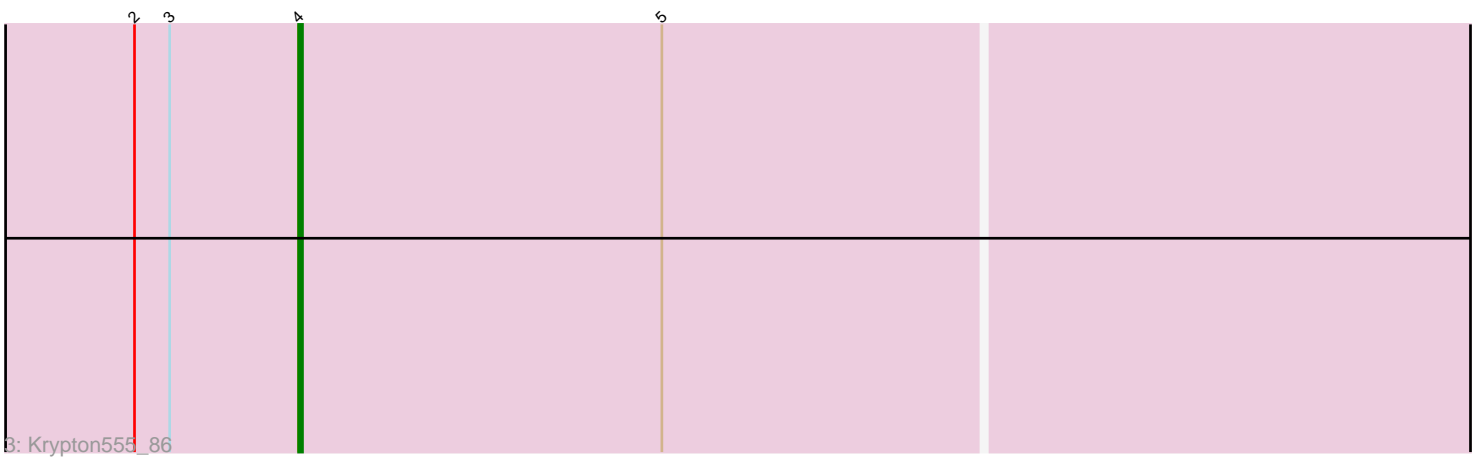
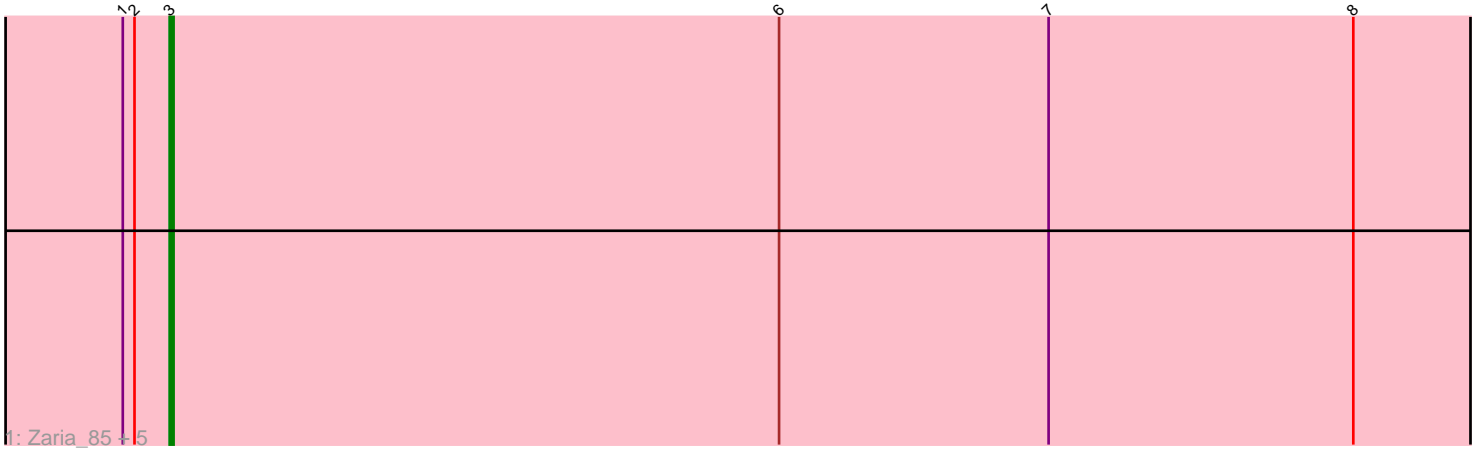


Pham 4746



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 4746 Report

This analysis was run 07/09/24 on database version 566.

Pham number 4746 has 16 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Zaria\_85, MAckerman\_81, Halena\_82, Wamburgxpress\_84, Calm\_86, OhShagHennessy\_81
- Track 2 : MiniMac\_89, Finnry\_85, Kingsolomon\_83, Nicholas\_83, Lolly9\_84, Whirlwind\_86, Moostard\_83, Samty\_84, MiniLon\_89
- Track 3 : Krypton555\_86

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

The start number called the most often in the published annotations is 3, it was called in 14 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Calm\_86, Finnry\_85, Halena\_82, Kingsolomon\_83, Lolly9\_84, MAckerman\_81, MiniLon\_89, MiniMac\_89, Moostard\_83, Nicholas\_83, OhShagHennessy\_81, Samty\_84, Wamburgxpress\_84, Whirlwind\_86, Zaria\_85,

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

- Krypton555\_86,

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

- 

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

Start 3:

- Found in 16 of 16 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 14 of 15
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Calm\_86 (L1), Finnry\_85 (L3), Halena\_82 (L1), Kingsolomon\_83 (L3), Lolly9\_84 (L3), MAckerman\_81 (L1), MiniLon\_89 (L3), MiniMac\_89 (L3), Moostard\_83 (L3), Nicholas\_83 (L3), OhShagHennessy\_81 (L1), Samty\_84 (L3), Wamburgxpress\_84 (L1), Whirlwind\_86 (L3), Zaria\_85 (L1),

Start 4:

- Found in 10 of 16 ( 62.5% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Krypton555\_86 (L3),

**Summary by clusters:**

There are 2 clusters represented in this pham: L3, L1,

Info for manual annotations of cluster L1:

- Start number 3 was manually annotated 5 times for cluster L1.

Info for manual annotations of cluster L3:

- Start number 3 was manually annotated 9 times for cluster L3.
- Start number 4 was manually annotated 1 time for cluster L3.

**Gene Information:**

Gene: Calm\_86 Start: 54513, Stop: 54848, Start Num: 3

Candidate Starts for Calm\_86:

(1, 54501), (2, 54504), (Start: 3 @54513 has 14 MA's), (6, 54669), (7, 54738), (8, 54816),

Gene: Finnry\_85 Start: 56050, Stop: 56382, Start Num: 3

Candidate Starts for Finnry\_85:

(2, 56041), (Start: 3 @56050 has 14 MA's), (Start: 4 @56083 has 1 MA's),

Gene: Halena\_82 Start: 53429, Stop: 53764, Start Num: 3

Candidate Starts for Halena\_82:

(1, 53417), (2, 53420), (Start: 3 @53429 has 14 MA's), (6, 53585), (7, 53654), (8, 53732),

Gene: Kingsolomon\_83 Start: 55806, Stop: 56138, Start Num: 3

Candidate Starts for Kingsolomon\_83:

(2, 55797), (Start: 3 @55806 has 14 MA's), (Start: 4 @55839 has 1 MA's),

Gene: Krypton555\_86 Start: 56107, Stop: 56406, Start Num: 4

Candidate Starts for Krypton555\_86:

(2, 56065), (Start: 3 @56074 has 14 MA's), (Start: 4 @56107 has 1 MA's), (5, 56200),

Gene: Lolly9\_84 Start: 55882, Stop: 56214, Start Num: 3

Candidate Starts for Lolly9\_84:

(2, 55873), (Start: 3 @55882 has 14 MA's), (Start: 4 @55915 has 1 MA's),

Gene: MAckerman\_81 Start: 53422, Stop: 53757, Start Num: 3

Candidate Starts for MAckerman\_81:

(1, 53410), (2, 53413), (Start: 3 @53422 has 14 MA's), (6, 53578), (7, 53647), (8, 53725),

Gene: MiniLon\_89 Start: 55883, Stop: 56215, Start Num: 3

Candidate Starts for MiniLon\_89:

(2, 55874), (Start: 3 @55883 has 14 MA's), (Start: 4 @55916 has 1 MA's),

Gene: MiniMac\_89 Start: 55878, Stop: 56210, Start Num: 3  
Candidate Starts for MiniMac\_89:  
(2, 55869), (Start: 3 @55878 has 14 MA's), (Start: 4 @55911 has 1 MA's),

Gene: Moostard\_83 Start: 55801, Stop: 56133, Start Num: 3  
Candidate Starts for Moostard\_83:  
(2, 55792), (Start: 3 @55801 has 14 MA's), (Start: 4 @55834 has 1 MA's),

Gene: Nicholas\_83 Start: 55806, Stop: 56138, Start Num: 3  
Candidate Starts for Nicholas\_83:  
(2, 55797), (Start: 3 @55806 has 14 MA's), (Start: 4 @55839 has 1 MA's),

Gene: OhShagHennessy\_81 Start: 53682, Stop: 54017, Start Num: 3  
Candidate Starts for OhShagHennessy\_81:  
(1, 53670), (2, 53673), (Start: 3 @53682 has 14 MA's), (6, 53838), (7, 53907), (8, 53985),

Gene: Samty\_84 Start: 55794, Stop: 56126, Start Num: 3  
Candidate Starts for Samty\_84:  
(2, 55785), (Start: 3 @55794 has 14 MA's), (Start: 4 @55827 has 1 MA's),

Gene: Wamburgrxpress\_84 Start: 54563, Stop: 54898, Start Num: 3  
Candidate Starts for Wamburgrxpress\_84:  
(1, 54551), (2, 54554), (Start: 3 @54563 has 14 MA's), (6, 54719), (7, 54788), (8, 54866),

Gene: Whirlwind\_86 Start: 56037, Stop: 56369, Start Num: 3  
Candidate Starts for Whirlwind\_86:  
(2, 56028), (Start: 3 @56037 has 14 MA's), (Start: 4 @56070 has 1 MA's),

Gene: Zaria\_85 Start: 53978, Stop: 54313, Start Num: 3  
Candidate Starts for Zaria\_85:  
(1, 53966), (2, 53969), (Start: 3 @53978 has 14 MA's), (6, 54134), (7, 54203), (8, 54281),