



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 4963 Report

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

Pham number 4963 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Wheezy\_92, KidneyBean\_92, Arti\_90, Tracker\_93
- Track 2 : NatB6\_93, Foxboro\_92, Kurt\_95, Jifall16\_93, NovumRegina\_92, Emianna\_95, Phomeo\_93, GrootJr\_94

### ***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 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Emianna\_95, Foxboro\_92, GrootJr\_94, Jifall16\_93, Kurt\_95, NatB6\_93, NovumRegina\_92, Phomeo\_93,

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

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

- Arti\_90, KidneyBean\_92, Tracker\_93, Wheezy\_92,

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

Start 1:

- Found in 4 of 12 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 4 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arti\_90 (CR2), KidneyBean\_92 (CR2), Tracker\_93 (CR2), Wheezy\_92 (CR2),

Start 2:

- Found in 8 of 12 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emianna\_95 (CR2), Foxboro\_92 (CR2), GrootJr\_94 (CR2), Jifall16\_93 (CR2), Kurt\_95 (CR2), NatB6\_93 (CR2),

NovumRegina\_92 (CR2), Phomeo\_93 (CR2),

### **Summary by clusters:**

There is one cluster represented in this pham: CR2

Info for manual annotations of cluster CR2:

- Start number 1 was manually annotated 4 times for cluster CR2.
- Start number 2 was manually annotated 7 times for cluster CR2.

### **Gene Information:**

Gene: Arti\_90 Start: 66161, Stop: 66376, Start Num: 1

Candidate Starts for Arti\_90:

(Start: 1 @66161 has 4 MA's), (3, 66209),

Gene: Emianna\_95 Start: 67812, Stop: 68027, Start Num: 2

Candidate Starts for Emianna\_95:

(Start: 2 @67812 has 7 MA's), (3, 67860),

Gene: Foxboro\_92 Start: 67395, Stop: 67610, Start Num: 2

Candidate Starts for Foxboro\_92:

(Start: 2 @67395 has 7 MA's), (3, 67443),

Gene: GrootJr\_94 Start: 66798, Stop: 67013, Start Num: 2

Candidate Starts for GrootJr\_94:

(Start: 2 @66798 has 7 MA's), (3, 66846),

Gene: Jifall16\_93 Start: 67092, Stop: 67307, Start Num: 2

Candidate Starts for Jifall16\_93:

(Start: 2 @67092 has 7 MA's), (3, 67140),

Gene: KidneyBean\_92 Start: 67424, Stop: 67639, Start Num: 1

Candidate Starts for KidneyBean\_92:

(Start: 1 @67424 has 4 MA's), (3, 67472),

Gene: Kurt\_95 Start: 67827, Stop: 68042, Start Num: 2

Candidate Starts for Kurt\_95:

(Start: 2 @67827 has 7 MA's), (3, 67875),

Gene: NatB6\_93 Start: 66703, Stop: 66918, Start Num: 2

Candidate Starts for NatB6\_93:

(Start: 2 @66703 has 7 MA's), (3, 66751),

Gene: NovumRegina\_92 Start: 66797, Stop: 67012, Start Num: 2

Candidate Starts for NovumRegina\_92:

(Start: 2 @66797 has 7 MA's), (3, 66845),

Gene: Phomeo\_93 Start: 67080, Stop: 67295, Start Num: 2

Candidate Starts for Phomeo\_93:

(Start: 2 @67080 has 7 MA's), (3, 67128),

Gene: Tracker\_93 Start: 66229, Stop: 66444, Start Num: 1  
Candidate Starts for Tracker\_93:  
(Start: 1 @66229 has 4 MA's), (3, 66277),

Gene: Wheezy\_92 Start: 66642, Stop: 66857, Start Num: 1  
Candidate Starts for Wheezy\_92:  
(Start: 1 @66642 has 4 MA's), (3, 66690),