



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 86736 Report

This analysis was run 04/05/24 on database version 557.

Pham number 86736 has 23 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Nason\_30, BenitoAntonio\_30, Correa\_28, Tribby\_30, Elsa\_30, Arcadia\_30
- Track 2 : Mooshroom\_31, GoCrazy\_28, Dynamite\_31, KeaneyLin\_28, Circum\_31, Hankly\_29, Benllo\_29, NapoleonB\_31, Kardesai\_31
- Track 3 : Xenomorph\_27
- Track 4 : JEGGS\_29, Heisenberger\_29, Cheesy\_30
- Track 5 : Mudcat\_28
- Track 6 : Arzan\_38
- Track 7 : Sunny4976\_36, Jazzy4900\_37

### ***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 18 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia\_30, Arzan\_38, BenitoAntonio\_30, Benllo\_29, Cheesy\_30, Circum\_31, Correa\_28, Dynamite\_31, Elsa\_30, GoCrazy\_28, Hankly\_29, Heisenberger\_29, JEGGS\_29, Jazzy4900\_37, Kardesai\_31, KeaneyLin\_28, Mooshroom\_31, Mudcat\_28, NapoleonB\_31, Nason\_30, Sunny4976\_36, Tribby\_30, Xenomorph\_27,

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

- 

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

- 

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

Start 4:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 18 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia\_30 (AM), Arzan\_38 (FI), BenitoAntonio\_30 (AM), Benllo\_29 (AM), Cheesy\_30 (AM), Circum\_31 (AM),

Correa\_28 (AM), Dynamite\_31 (AM), Elsa\_30 (AM), GoCrazy\_28 (AM), Hankly\_29 (AM), Heisenberger\_29 (AM), JEGGS\_29 (AM), Jazzy4900\_37 (FI), Kardesai\_31 (AM), KeaneyLin\_28 (AM), Mooshroom\_31 (AM), Mudcat\_28 (AM), NapoleonB\_31 (AM), Nason\_30 (AM), Sunny4976\_36 (FI), Tribby\_30 (AM), Xenomorph\_27 (AM),

### **Summary by clusters:**

There are 2 clusters represented in this pham: FI, AM,

Info for manual annotations of cluster AM:

- Start number 4 was manually annotated 18 times for cluster AM.

### **Gene Information:**

Gene: Arcadia\_30 Start: 26074, Stop: 26274, Start Num: 4

Candidate Starts for Arcadia\_30:

(Start: 4 @26074 has 18 MA's),

Gene: Arzan\_38 Start: 28262, Stop: 28456, Start Num: 4

Candidate Starts for Arzan\_38:

(3, 28235), (Start: 4 @28262 has 18 MA's), (7, 28379),

Gene: BenitoAntonio\_30 Start: 25690, Stop: 25890, Start Num: 4

Candidate Starts for BenitoAntonio\_30:

(Start: 4 @25690 has 18 MA's),

Gene: Benllo\_29 Start: 26322, Stop: 26522, Start Num: 4

Candidate Starts for Benllo\_29:

(Start: 4 @26322 has 18 MA's), (6, 26427),

Gene: Cheesy\_30 Start: 25789, Stop: 25989, Start Num: 4

Candidate Starts for Cheesy\_30:

(2, 25726), (Start: 4 @25789 has 18 MA's), (6, 25894),

Gene: Circum\_31 Start: 26144, Stop: 26356, Start Num: 4

Candidate Starts for Circum\_31:

(Start: 4 @26144 has 18 MA's), (6, 26249),

Gene: Correa\_28 Start: 24981, Stop: 25181, Start Num: 4

Candidate Starts for Correa\_28:

(Start: 4 @24981 has 18 MA's),

Gene: Dynamite\_31 Start: 26258, Stop: 26458, Start Num: 4

Candidate Starts for Dynamite\_31:

(Start: 4 @26258 has 18 MA's), (6, 26363),

Gene: Elsa\_30 Start: 26074, Stop: 26274, Start Num: 4

Candidate Starts for Elsa\_30:

(Start: 4 @26074 has 18 MA's),

Gene: GoCrazy\_28 Start: 25630, Stop: 25830, Start Num: 4  
Candidate Starts for GoCrazy\_28:  
(Start: 4 @25630 has 18 MA's), (6, 25735),

Gene: Hankly\_29 Start: 25167, Stop: 25379, Start Num: 4  
Candidate Starts for Hankly\_29:  
(Start: 4 @25167 has 18 MA's), (6, 25272),

Gene: Heisenberger\_29 Start: 25469, Stop: 25669, Start Num: 4  
Candidate Starts for Heisenberger\_29:  
(2, 25406), (Start: 4 @25469 has 18 MA's), (6, 25574),

Gene: JEGGS\_29 Start: 25523, Stop: 25723, Start Num: 4  
Candidate Starts for JEGGS\_29:  
(2, 25460), (Start: 4 @25523 has 18 MA's), (6, 25628),

Gene: Jazzy4900\_37 Start: 29214, Stop: 29408, Start Num: 4  
Candidate Starts for Jazzy4900\_37:  
(Start: 4 @29214 has 18 MA's), (5, 29292),

Gene: Kardesai\_31 Start: 26209, Stop: 26409, Start Num: 4  
Candidate Starts for Kardesai\_31:  
(Start: 4 @26209 has 18 MA's), (6, 26314),

Gene: KeaneyLin\_28 Start: 25630, Stop: 25830, Start Num: 4  
Candidate Starts for KeaneyLin\_28:  
(Start: 4 @25630 has 18 MA's), (6, 25735),

Gene: Mooshroom\_31 Start: 26209, Stop: 26409, Start Num: 4  
Candidate Starts for Mooshroom\_31:  
(Start: 4 @26209 has 18 MA's), (6, 26314),

Gene: Mudcat\_28 Start: 27175, Stop: 27375, Start Num: 4  
Candidate Starts for Mudcat\_28:  
(1, 27085), (2, 27112), (Start: 4 @27175 has 18 MA's),

Gene: NapoleonB\_31 Start: 26258, Stop: 26458, Start Num: 4  
Candidate Starts for NapoleonB\_31:  
(Start: 4 @26258 has 18 MA's), (6, 26363),

Gene: Nason\_30 Start: 26074, Stop: 26274, Start Num: 4  
Candidate Starts for Nason\_30:  
(Start: 4 @26074 has 18 MA's),

Gene: Sunny4976\_36 Start: 29214, Stop: 29408, Start Num: 4  
Candidate Starts for Sunny4976\_36:  
(Start: 4 @29214 has 18 MA's), (5, 29292),

Gene: Tribby\_30 Start: 25789, Stop: 25989, Start Num: 4  
Candidate Starts for Tribby\_30:  
(Start: 4 @25789 has 18 MA's),

Gene: Xenomorph\_27 Start: 25486, Stop: 25686, Start Num: 4

Candidate Starts for Xenomorph\_27:  
(2, 25423), (Start: 4 @25486 has 18 MA's),