



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 303744 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303744 has 16 members, 1 are drafts.

Phages represented in each track:

- Track 1 : GoCrazy\_90, Correa\_90, Xenomorph\_90, JEGGS\_94, Tribby\_97, Heisenberger\_94
- Track 2 : Stardom\_88, BenitoAntonio\_93
- Track 3 : Benllo\_91, Mooshroom\_96, Kardesai\_94, Hankly\_96
- Track 4 : Cheesy\_96
- Track 5 : Elsa\_92, Arcadia\_92, Nason\_92

### ***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 14 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia\_92, BenitoAntonio\_93, Benllo\_91, Correa\_90, Elsa\_92, GoCrazy\_90, Hankly\_96, Heisenberger\_94, JEGGS\_94, Kardesai\_94, Mooshroom\_96, Nason\_92, Stardom\_88, Tribby\_97, Xenomorph\_90,

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

- Cheesy\_96,

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

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

Start 2:

- 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: Arcadia\_92 (AM), BenitoAntonio\_93 (AM), Benllo\_91 (AM), Correa\_90 (AM), Elsa\_92 (AM), GoCrazy\_90 (AM), Hankly\_96 (AM), Heisenberger\_94 (AM), JEGGS\_94 (AM), Kardesai\_94 (AM), Mooshroom\_96 (AM), Nason\_92 (AM), Stardom\_88 (AM), Tribby\_97 (AM), Xenomorph\_90 (AM),

Start 4:

- Found in 7 of 16 ( 43.8% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Cheesy\_96 (AM),

**Summary by clusters:**

There is one cluster represented in this pham: AM

Info for manual annotations of cluster AM:

- Start number 2 was manually annotated 14 times for cluster AM.
- Start number 4 was manually annotated 1 time for cluster AM.

**Gene Information:**

Gene: Arcadia\_92 Start: 53282, Stop: 53533, Start Num: 2

Candidate Starts for Arcadia\_92:

(Start: 2 @53282 has 14 MA's), (3, 53336),

Gene: BenitoAntonio\_93 Start: 53213, Stop: 53464, Start Num: 2

Candidate Starts for BenitoAntonio\_93:

(1, 53183), (Start: 2 @53213 has 14 MA's), (5, 53336),

Gene: Benllo\_91 Start: 54059, Stop: 54313, Start Num: 2

Candidate Starts for Benllo\_91:

(Start: 2 @54059 has 14 MA's), (5, 54182), (6, 54299),

Gene: Cheesy\_96 Start: 54021, Stop: 54215, Start Num: 4

Candidate Starts for Cheesy\_96:

(Start: 2 @53964 has 14 MA's), (Start: 4 @54021 has 1 MA's),

Gene: Correa\_90 Start: 52631, Stop: 52882, Start Num: 2

Candidate Starts for Correa\_90:

(Start: 2 @52631 has 14 MA's), (Start: 4 @52688 has 1 MA's),

Gene: Elsa\_92 Start: 53282, Stop: 53533, Start Num: 2

Candidate Starts for Elsa\_92:

(Start: 2 @53282 has 14 MA's), (3, 53336),

Gene: GoCrazy\_90 Start: 52273, Stop: 52551, Start Num: 2

Candidate Starts for GoCrazy\_90:

(Start: 2 @52273 has 14 MA's), (Start: 4 @52330 has 1 MA's),

Gene: Hankly\_96 Start: 53670, Stop: 53924, Start Num: 2

Candidate Starts for Hankly\_96:

(Start: 2 @53670 has 14 MA's), (5, 53793), (6, 53910),

Gene: Heisenberger\_94 Start: 53438, Stop: 53689, Start Num: 2

Candidate Starts for Heisenberger\_94:

(Start: 2 @53438 has 14 MA's), (Start: 4 @53495 has 1 MA's),

Gene: JEGGS\_94 Start: 53517, Stop: 53768, Start Num: 2  
Candidate Starts for JEGGS\_94:  
(Start: 2 @53517 has 14 MA's), (Start: 4 @53574 has 1 MA's),

Gene: Kardesai\_94 Start: 53098, Stop: 53352, Start Num: 2  
Candidate Starts for Kardesai\_94:  
(Start: 2 @53098 has 14 MA's), (5, 53221), (6, 53338),

Gene: Mooshroom\_96 Start: 53098, Stop: 53352, Start Num: 2  
Candidate Starts for Mooshroom\_96:  
(Start: 2 @53098 has 14 MA's), (5, 53221), (6, 53338),

Gene: Nason\_92 Start: 53282, Stop: 53533, Start Num: 2  
Candidate Starts for Nason\_92:  
(Start: 2 @53282 has 14 MA's), (3, 53336),

Gene: Stardom\_88 Start: 51134, Stop: 51385, Start Num: 2  
Candidate Starts for Stardom\_88:  
(1, 51104), (Start: 2 @51134 has 14 MA's), (5, 51257),

Gene: Tribby\_97 Start: 54308, Stop: 54559, Start Num: 2  
Candidate Starts for Tribby\_97:  
(Start: 2 @54308 has 14 MA's), (Start: 4 @54365 has 1 MA's),

Gene: Xenomorph\_90 Start: 53919, Stop: 54170, Start Num: 2  
Candidate Starts for Xenomorph\_90:  
(Start: 2 @53919 has 14 MA's), (Start: 4 @53976 has 1 MA's),