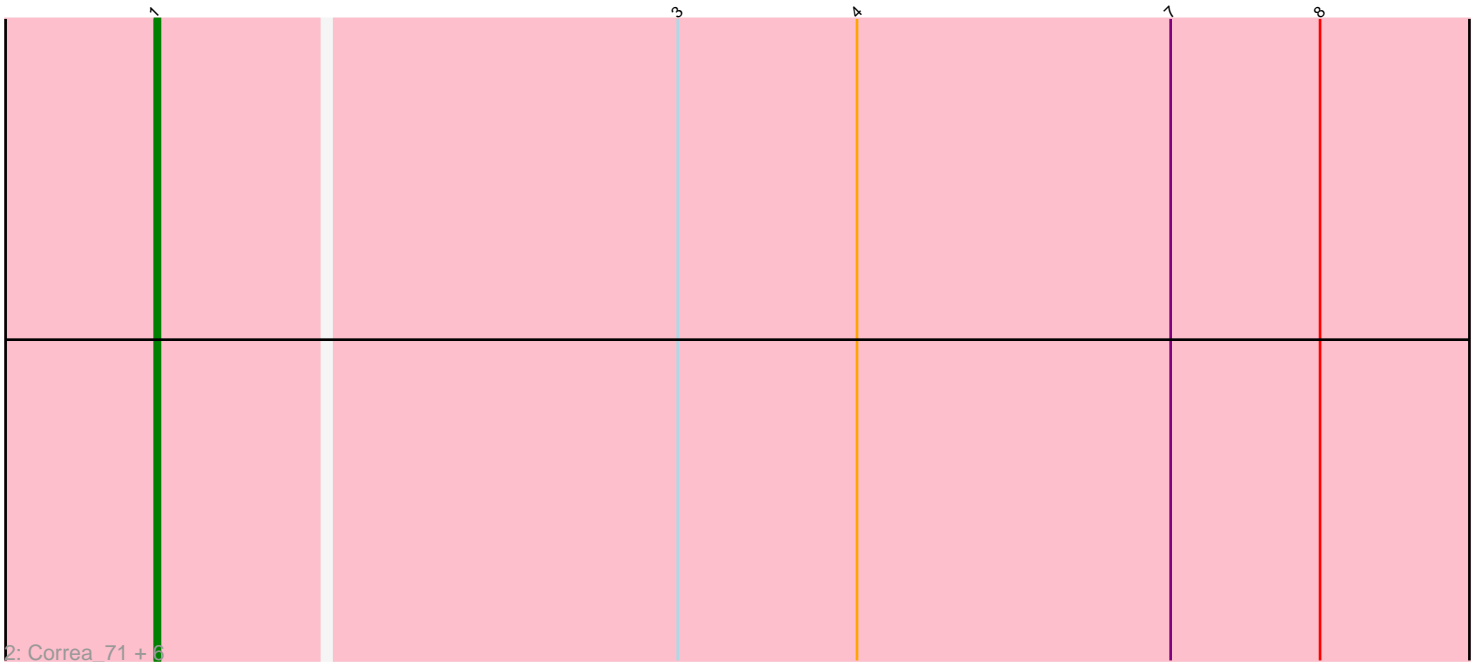


1: Stardom\_72 + 15



2: Correa\_71 + 6

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 296920 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296920 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Stardom\_72, JEGGS\_71, Bowling\_74, Benllo\_70, Mooshroom\_73, Dynamite\_72, Hankly\_72, GoCrazy\_69, Heisenberger\_71, Circum\_74, BenitoAntonio\_71, Mudcat\_68, KeaneyLin\_68, Kardesai\_72, NapoleonB\_73, YoshiYama\_74
- Track 2 : Correa\_71, Cheesy\_73, Xenomorph\_69, Elsa\_72, Arcadia\_72, Tribby\_76, Nason\_72

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

The start number called the most often in the published annotations is 1, it was called in 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia\_72, BenitoAntonio\_71, Benllo\_70, Bowling\_74, Cheesy\_73, Circum\_74, Correa\_71, Dynamite\_72, Elsa\_72, GoCrazy\_69, Hankly\_72, Heisenberger\_71, JEGGS\_71, Kardesai\_72, KeaneyLin\_68, Mooshroom\_73, Mudcat\_68, NapoleonB\_73, Nason\_72, Stardom\_72, Tribby\_76, Xenomorph\_69, YoshiYama\_74,

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 1:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 21 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia\_72 (AM), BenitoAntonio\_71 (AM), Benllo\_70 (AM), Bowling\_74 (AM), Cheesy\_73 (AM), Circum\_74 (AM), Correa\_71 (AM), Dynamite\_72 (AM), Elsa\_72 (AM), GoCrazy\_69 (AM), Hankly\_72 (AM), Heisenberger\_71 (AM), JEGGS\_71 (AM), Kardesai\_72 (AM), KeaneyLin\_68

(AM), Mooshroom\_73 (AM), Mudcat\_68 (AM), NapoleonB\_73 (AM), Nason\_72 (AM), Stardom\_72 (AM), Tribby\_76 (AM), Xenomorph\_69 (AM), YoshiYama\_74 (AM),

### **Summary by clusters:**

There is one cluster represented in this pham: AM

Info for manual annotations of cluster AM:

•Start number 1 was manually annotated 21 times for cluster AM.

### **Gene Information:**

Gene: Arcadia\_72 Start: 44474, Stop: 44782, Start Num: 1

Candidate Starts for Arcadia\_72:

(Start: 1 @44474 has 21 MA's), (3, 44576), (4, 44612), (7, 44675), (8, 44705),

Gene: BenitoAntonio\_71 Start: 44114, Stop: 44425, Start Num: 1

Candidate Starts for BenitoAntonio\_71:

(Start: 1 @44114 has 21 MA's), (2, 44177), (4, 44255), (5, 44276), (6, 44300), (7, 44318), (8, 44348),

Gene: Benllo\_70 Start: 44792, Stop: 45103, Start Num: 1

Candidate Starts for Benllo\_70:

(Start: 1 @44792 has 21 MA's), (2, 44855), (4, 44933), (5, 44954), (6, 44978), (7, 44996), (8, 45026),

Gene: Bowling\_74 Start: 45068, Stop: 45379, Start Num: 1

Candidate Starts for Bowling\_74:

(Start: 1 @45068 has 21 MA's), (2, 45131), (4, 45209), (5, 45230), (6, 45254), (7, 45272), (8, 45302),

Gene: Cheesy\_73 Start: 44267, Stop: 44575, Start Num: 1

Candidate Starts for Cheesy\_73:

(Start: 1 @44267 has 21 MA's), (3, 44369), (4, 44405), (7, 44468), (8, 44498),

Gene: Circum\_74 Start: 44882, Stop: 45193, Start Num: 1

Candidate Starts for Circum\_74:

(Start: 1 @44882 has 21 MA's), (2, 44945), (4, 45023), (5, 45044), (6, 45068), (7, 45086), (8, 45116),

Gene: Correa\_71 Start: 43841, Stop: 44149, Start Num: 1

Candidate Starts for Correa\_71:

(Start: 1 @43841 has 21 MA's), (3, 43943), (4, 43979), (7, 44042), (8, 44072),

Gene: Dynamite\_72 Start: 44325, Stop: 44636, Start Num: 1

Candidate Starts for Dynamite\_72:

(Start: 1 @44325 has 21 MA's), (2, 44388), (4, 44466), (5, 44487), (6, 44511), (7, 44529), (8, 44559),

Gene: Elsa\_72 Start: 44474, Stop: 44782, Start Num: 1

Candidate Starts for Elsa\_72:

(Start: 1 @44474 has 21 MA's), (3, 44576), (4, 44612), (7, 44675), (8, 44705),

Gene: GoCrazy\_69 Start: 43769, Stop: 44080, Start Num: 1

Candidate Starts for GoCrazy\_69:

(Start: 1 @43769 has 21 MA's), (2, 43832), (4, 43910), (5, 43931), (6, 43955), (7, 43973), (8, 44003),

Gene: Hankly\_72 Start: 43963, Stop: 44274, Start Num: 1  
Candidate Starts for Hankly\_72:  
(Start: 1 @43963 has 21 MA's), (2, 44026), (4, 44104), (5, 44125), (6, 44149), (7, 44167), (8, 44197),

Gene: Heisenberger\_71 Start: 43731, Stop: 44042, Start Num: 1  
Candidate Starts for Heisenberger\_71:  
(Start: 1 @43731 has 21 MA's), (2, 43794), (4, 43872), (5, 43893), (6, 43917), (7, 43935), (8, 43965),

Gene: JEGGS\_71 Start: 43810, Stop: 44121, Start Num: 1  
Candidate Starts for JEGGS\_71:  
(Start: 1 @43810 has 21 MA's), (2, 43873), (4, 43951), (5, 43972), (6, 43996), (7, 44014), (8, 44044),

Gene: Kardesai\_72 Start: 44083, Stop: 44394, Start Num: 1  
Candidate Starts for Kardesai\_72:  
(Start: 1 @44083 has 21 MA's), (2, 44146), (4, 44224), (5, 44245), (6, 44269), (7, 44287), (8, 44317),

Gene: KeaneyLin\_68 Start: 43769, Stop: 44080, Start Num: 1  
Candidate Starts for KeaneyLin\_68:  
(Start: 1 @43769 has 21 MA's), (2, 43832), (4, 43910), (5, 43931), (6, 43955), (7, 43973), (8, 44003),

Gene: Mooshroom\_73 Start: 44083, Stop: 44394, Start Num: 1  
Candidate Starts for Mooshroom\_73:  
(Start: 1 @44083 has 21 MA's), (2, 44146), (4, 44224), (5, 44245), (6, 44269), (7, 44287), (8, 44317),

Gene: Mudcat\_68 Start: 45168, Stop: 45479, Start Num: 1  
Candidate Starts for Mudcat\_68:  
(Start: 1 @45168 has 21 MA's), (2, 45231), (4, 45309), (5, 45330), (6, 45354), (7, 45372), (8, 45402),

Gene: NapoleonB\_73 Start: 44325, Stop: 44636, Start Num: 1  
Candidate Starts for NapoleonB\_73:  
(Start: 1 @44325 has 21 MA's), (2, 44388), (4, 44466), (5, 44487), (6, 44511), (7, 44529), (8, 44559),

Gene: Nason\_72 Start: 44474, Stop: 44782, Start Num: 1  
Candidate Starts for Nason\_72:  
(Start: 1 @44474 has 21 MA's), (3, 44576), (4, 44612), (7, 44675), (8, 44705),

Gene: Stardom\_72 Start: 43676, Stop: 43987, Start Num: 1  
Candidate Starts for Stardom\_72:  
(Start: 1 @43676 has 21 MA's), (2, 43739), (4, 43817), (5, 43838), (6, 43862), (7, 43880), (8, 43910),

Gene: Tribby\_76 Start: 45227, Stop: 45535, Start Num: 1  
Candidate Starts for Tribby\_76:  
(Start: 1 @45227 has 21 MA's), (3, 45329), (4, 45365), (7, 45428), (8, 45458),

Gene: Xenomorph\_69 Start: 44753, Stop: 45061, Start Num: 1  
Candidate Starts for Xenomorph\_69:  
(Start: 1 @44753 has 21 MA's), (3, 44855), (4, 44891), (7, 44954), (8, 44984),

Gene: YoshiYama\_74 Start: 45322, Stop: 45633, Start Num: 1  
Candidate Starts for YoshiYama\_74:  
(Start: 1 @45322 has 21 MA's), (2, 45385), (4, 45463), (5, 45484), (6, 45508), (7, 45526), (8, 45556),