

| 1 | 2 | 3 | 4 | 5 |
|--------------|---|---|---|---|
| 1: Popper_29 | | | | |

| | 2 | 3 | 4 |
|------------------|---|---|---|
| 2: Zaheer_31 + 3 | | | |

| | 2 | 3 | 4 | 5 |
|----------------|---|---|---|---|
| 3: Gusanita_29 | | | | |

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 172071 Report

This analysis was run 07/10/24 on database version 566.

Pham number 172071 has 6 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Popper_29
- Track 2 : Zaheer_31, Ryan_31, Cole_29, Nandita_31
- Track 3 : Gusanita_29

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 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cole_29, Gusanita_29, Nandita_31, Popper_29, Ryan_31, Zaheer_31,

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 3:

- Found in 6 of 6 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cole_29 (FF), Gusanita_29 (FF), Nandita_31 (FF), Popper_29 (FF), Ryan_31 (FF), Zaheer_31 (FF),

Summary by clusters:

There is one cluster represented in this pham: FF

Info for manual annotations of cluster FF:

- Start number 3 was manually annotated 6 times for cluster FF.

Gene Information:

Gene: Cole_29 Start: 22974, Stop: 23171, Start Num: 3

Candidate Starts for Cole_29:

(Start: 3 @22974 has 6 MA's), (4, 23013), (5, 23088),

Gene: Gusanita_29 Start: 22909, Stop: 23106, Start Num: 3

Candidate Starts for Gusanita_29:

(2, 22780), (Start: 3 @22909 has 6 MA's), (4, 22948), (5, 23023),

Gene: Nandita_31 Start: 23146, Stop: 23343, Start Num: 3

Candidate Starts for Nandita_31:

(Start: 3 @23146 has 6 MA's), (4, 23185), (5, 23260),

Gene: Popper_29 Start: 23059, Stop: 23256, Start Num: 3

Candidate Starts for Popper_29:

(1, 22861), (Start: 3 @23059 has 6 MA's), (4, 23098), (5, 23173),

Gene: Ryan_31 Start: 23757, Stop: 23954, Start Num: 3

Candidate Starts for Ryan_31:

(Start: 3 @23757 has 6 MA's), (4, 23796), (5, 23871),

Gene: Zaheer_31 Start: 23846, Stop: 24043, Start Num: 3

Candidate Starts for Zaheer_31:

(Start: 3 @23846 has 6 MA's), (4, 23885), (5, 23960),