



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 282569 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282569 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Comrade\_121, Karp\_121, Belfort\_125, SparkleGoddess\_123, Stigma\_123, Westy\_127
- Track 2 : MeganTheeKilla\_124, Emma1919\_125, Gilson\_125, Maupel\_124
- Track 3 : Francob\_122
- Track 4 : Moab\_126, Patelgo\_128
- Track 5 : Phredrick\_125

### ***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 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_125, Comrade\_121, Emma1919\_125, Francob\_122, Gilson\_125, Karp\_121, Maupel\_124, MeganTheeKilla\_124, Moab\_126, Patelgo\_128, Phredrick\_125, SparkleGoddess\_123, Stigma\_123, Westy\_127,

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 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_125 (BK1), Comrade\_121 (BK1), Emma1919\_125 (BK1), Francob\_122 (BK1), Gilson\_125 (BK1), Karp\_121 (BK1), Maupel\_124 (BK1), MeganTheeKilla\_124 (BK1), Moab\_126 (BK1), Patelgo\_128 (BK1), Phredrick\_125 (BK1), SparkleGoddess\_123 (BK1), Stigma\_123 (BK1), Westy\_127 (BK1),

## Summary by clusters:

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

•Start number 1 was manually annotated 13 times for cluster BK1.

### **Gene Information:**

Gene: Belfort\_125 Start: 76660, Stop: 76821, Start Num: 1

Candidate Starts for Belfort\_125:

(Start: 1 @76660 has 13 MA's), (2, 76690), (6, 76732), (7, 76759), (11, 76807), (12, 76810),

Gene: Comrade\_121 Start: 75978, Stop: 76139, Start Num: 1

Candidate Starts for Comrade\_121:

(Start: 1 @75978 has 13 MA's), (2, 76008), (6, 76050), (7, 76077), (11, 76125), (12, 76128),

Gene: Emma1919\_125 Start: 75292, Stop: 75435, Start Num: 1

Candidate Starts for Emma1919\_125:

(Start: 1 @75292 has 13 MA's), (7, 75376), (9, 75388), (10, 75409), (12, 75427),

Gene: Francob\_122 Start: 75550, Stop: 75711, Start Num: 1

Candidate Starts for Francob\_122:

(Start: 1 @75550 has 13 MA's), (2, 75580), (4, 75604), (6, 75622), (7, 75649), (11, 75697), (12, 75700),

Gene: Gilson\_125 Start: 75254, Stop: 75397, Start Num: 1

Candidate Starts for Gilson\_125:

(Start: 1 @75254 has 13 MA's), (7, 75338), (9, 75350), (10, 75371), (12, 75389),

Gene: Karp\_121 Start: 75949, Stop: 76110, Start Num: 1

Candidate Starts for Karp\_121:

(Start: 1 @75949 has 13 MA's), (2, 75979), (6, 76021), (7, 76048), (11, 76096), (12, 76099),

Gene: Maupel\_124 Start: 75254, Stop: 75397, Start Num: 1

Candidate Starts for Maupel\_124:

(Start: 1 @75254 has 13 MA's), (7, 75338), (9, 75350), (10, 75371), (12, 75389),

Gene: MeganTheeKilla\_124 Start: 75459, Stop: 75602, Start Num: 1

Candidate Starts for MeganTheeKilla\_124:

(Start: 1 @75459 has 13 MA's), (7, 75543), (9, 75555), (10, 75576), (12, 75594),

Gene: Moab\_126 Start: 77966, Stop: 78127, Start Num: 1

Candidate Starts for Moab\_126:

(Start: 1 @77966 has 13 MA's), (2, 77996), (3, 78008), (5, 78029), (6, 78038), (8, 78074), (9, 78077), (11, 78113), (12, 78116),

Gene: Patelgo\_128 Start: 78196, Stop: 78357, Start Num: 1

Candidate Starts for Patelgo\_128:

(Start: 1 @78196 has 13 MA's), (2, 78226), (3, 78238), (5, 78259), (6, 78268), (8, 78304), (9, 78307), (11, 78343), (12, 78346),

Gene: Phredrick\_125 Start: 75055, Stop: 75198, Start Num: 1

Candidate Starts for Phredrick\_125:

(Start: 1 @75055 has 13 MA's), (7, 75139), (9, 75151), (12, 75190),

Gene: SparkleGoddess\_123 Start: 76278, Stop: 76439, Start Num: 1

Candidate Starts for SparkleGoddess\_123:

(Start: 1 @76278 has 13 MA's), (2, 76308), (6, 76350), (7, 76377), (11, 76425), (12, 76428),

Gene: Stigma\_123 Start: 76286, Stop: 76447, Start Num: 1

Candidate Starts for Stigma\_123:

(Start: 1 @76286 has 13 MA's), (2, 76316), (6, 76358), (7, 76385), (11, 76433), (12, 76436),

Gene: Westy\_127 Start: 77313, Stop: 77474, Start Num: 1

Candidate Starts for Westy\_127:

(Start: 1 @77313 has 13 MA's), (2, 77343), (6, 77385), (7, 77412), (11, 77460), (12, 77463),