



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 289831 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289831 has 16 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Gilson\_133, Jada\_135, MeganTheeKilla\_131, Forrest\_139, Maupel\_132, Emma1919\_133
- Track 2 : Comrade\_127, SparkleGoddess\_129, Westy\_133, Belfort\_131, Stigma\_129, Karp\_127
- Track 3 : DeluluLabubu\_136, Phredrick\_133, Kenrey\_136
- Track 4 : Francob\_130

### ***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:

- Belfort\_131, Comrade\_127, DeluluLabubu\_136, Emma1919\_133, Forrest\_139, Gilson\_133, Jada\_135, Karp\_127, Kenrey\_136, Maupel\_132, MeganTheeKilla\_131, Phredrick\_133, SparkleGoddess\_129, Stigma\_129, Westy\_133,

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

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

- Francob\_130,

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

Start 2:

- Found in 15 of 16 ( 93.8% ) of genes in pham
- Manual Annotations of this start: 14 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_131 (BK1), Comrade\_127 (BK1), DeluluLabubu\_136 (BK1), Emma1919\_133 (BK1), Forrest\_139 (BK1), Gilson\_133 (BK1), Jada\_135 (BK1), Karp\_127 (BK1), Kenrey\_136 (BK1), Maupel\_132 (BK1), MeganTheeKilla\_131 (BK1), Phredrick\_133 (BK1), SparkleGoddess\_129 (BK1), Stigma\_129 (BK1), Westy\_133 (BK1),

Start 3:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Francob\_130 (BK1),

**Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 2 was manually annotated 14 times for cluster BK1.
- Start number 3 was manually annotated 1 time for cluster BK1.

**Gene Information:**

Gene: Belfort\_131 Start: 77731, Stop: 77907, Start Num: 2

Candidate Starts for Belfort\_131:

(1, 77638), (Start: 2 @77731 has 14 MA's), (7, 77803),

Gene: Comrade\_127 Start: 77049, Stop: 77225, Start Num: 2

Candidate Starts for Comrade\_127:

(1, 76956), (Start: 2 @77049 has 14 MA's), (7, 77121),

Gene: DeluluLabubu\_136 Start: 78304, Stop: 78480, Start Num: 2

Candidate Starts for DeluluLabubu\_136:

(Start: 2 @78304 has 14 MA's), (7, 78376),

Gene: Emma1919\_133 Start: 76636, Stop: 76812, Start Num: 2

Candidate Starts for Emma1919\_133:

(Start: 2 @76636 has 14 MA's), (4, 76663), (7, 76708), (9, 76768),

Gene: Forrest\_139 Start: 80070, Stop: 80246, Start Num: 2

Candidate Starts for Forrest\_139:

(Start: 2 @80070 has 14 MA's), (4, 80097), (7, 80142), (9, 80202),

Gene: Francob\_130 Start: 77087, Stop: 77260, Start Num: 3

Candidate Starts for Francob\_130:

(Start: 3 @77087 has 1 MA's), (5, 77138), (6, 77150), (8, 77159),

Gene: Gilson\_133 Start: 76598, Stop: 76774, Start Num: 2

Candidate Starts for Gilson\_133:

(Start: 2 @76598 has 14 MA's), (4, 76625), (7, 76670), (9, 76730),

Gene: Jada\_135 Start: 79000, Stop: 79176, Start Num: 2

Candidate Starts for Jada\_135:

(Start: 2 @79000 has 14 MA's), (4, 79027), (7, 79072), (9, 79132),

Gene: Karp\_127 Start: 77020, Stop: 77196, Start Num: 2

Candidate Starts for Karp\_127:

(1, 76927), (Start: 2 @77020 has 14 MA's), (7, 77092),

Gene: Kenrey\_136 Start: 78214, Stop: 78390, Start Num: 2

Candidate Starts for Kenrey\_136:

(Start: 2 @78214 has 14 MA's), (7, 78286),

Gene: Maupel\_132 Start: 76598, Stop: 76774, Start Num: 2

Candidate Starts for Maupel\_132:

(Start: 2 @76598 has 14 MA's), (4, 76625), (7, 76670), (9, 76730),

Gene: MeganTheeKilla\_131 Start: 76802, Stop: 76978, Start Num: 2

Candidate Starts for MeganTheeKilla\_131:

(Start: 2 @76802 has 14 MA's), (4, 76829), (7, 76874), (9, 76934),

Gene: Phredrick\_133 Start: 76429, Stop: 76605, Start Num: 2

Candidate Starts for Phredrick\_133:

(Start: 2 @76429 has 14 MA's), (7, 76501),

Gene: SparkleGoddess\_129 Start: 77349, Stop: 77525, Start Num: 2

Candidate Starts for SparkleGoddess\_129:

(1, 77256), (Start: 2 @77349 has 14 MA's), (7, 77421),

Gene: Stigma\_129 Start: 77357, Stop: 77533, Start Num: 2

Candidate Starts for Stigma\_129:

(1, 77264), (Start: 2 @77357 has 14 MA's), (7, 77429),

Gene: Westy\_133 Start: 78384, Stop: 78560, Start Num: 2

Candidate Starts for Westy\_133:

(1, 78291), (Start: 2 @78384 has 14 MA's), (7, 78456),