



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 303767 Report

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

Pham number 303767 has 14 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Marianna39\_179, Gandionco\_180
- Track 2 : Paella\_180, Gandionco\_178, Marianna39\_177, Elver\_179, Kureo\_177, Qui\_180, JeNeSaisPas\_174
- Track 3 : Elver\_181, Paella\_182, JeNeSaisPas\_176, Qui\_182, Kureo\_179

### ***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 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Elver\_179, Gandionco\_178, JeNeSaisPas\_174, Kureo\_177, Marianna39\_177, Paella\_180, Qui\_180,

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:

- Elver\_181, Gandionco\_180, JeNeSaisPas\_176, Kureo\_179, Marianna39\_179, Paella\_182, Qui\_182,

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

Start 1:

- Found in 7 of 14 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver\_179 (FK), Gandionco\_178 (FK), JeNeSaisPas\_174 (FK), Kureo\_177 (FK), Marianna39\_177 (FK), Paella\_180 (FK), Qui\_180 (FK),

Start 2:

- Found in 7 of 14 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 3 of 6

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver\_181 (FK), Gandionco\_180 (FK), JeNeSaisPas\_176 (FK), Kureo\_179 (FK), Marianna39\_179 (FK), Paella\_182 (FK), Qui\_182 (FK),

### **Summary by clusters:**

There is one cluster represented in this pham: FK

Info for manual annotations of cluster FK:

- Start number 1 was manually annotated 3 times for cluster FK.
- Start number 2 was manually annotated 3 times for cluster FK.

### **Gene Information:**

Gene: Elver\_181 Start: 88700, Stop: 89362, Start Num: 2

Candidate Starts for Elver\_181:

(Start: 2 @88700 has 3 MA's), (3, 88787), (5, 88901), (6, 88907), (7, 89015), (8, 89048), (9, 89069), (10, 89255),

Gene: Elver\_179 Start: 87817, Stop: 88377, Start Num: 1

Candidate Starts for Elver\_179:

(Start: 1 @87817 has 3 MA's), (3, 87901), (4, 87964),

Gene: Gandionco\_180 Start: 88094, Stop: 88756, Start Num: 2

Candidate Starts for Gandionco\_180:

(Start: 2 @88094 has 3 MA's), (3, 88181), (6, 88301), (7, 88409), (8, 88442), (9, 88463), (10, 88649),

Gene: Gandionco\_178 Start: 87211, Stop: 87771, Start Num: 1

Candidate Starts for Gandionco\_178:

(Start: 1 @87211 has 3 MA's), (3, 87295), (4, 87358),

Gene: JeNeSaisPas\_176 Start: 88821, Stop: 89483, Start Num: 2

Candidate Starts for JeNeSaisPas\_176:

(Start: 2 @88821 has 3 MA's), (3, 88908), (5, 89022), (6, 89028), (7, 89136), (8, 89169), (9, 89190), (10, 89376),

Gene: JeNeSaisPas\_174 Start: 87938, Stop: 88498, Start Num: 1

Candidate Starts for JeNeSaisPas\_174:

(Start: 1 @87938 has 3 MA's), (3, 88022), (4, 88085),

Gene: Kureo\_177 Start: 86648, Stop: 87208, Start Num: 1

Candidate Starts for Kureo\_177:

(Start: 1 @86648 has 3 MA's), (3, 86732), (4, 86795),

Gene: Kureo\_179 Start: 87531, Stop: 88193, Start Num: 2

Candidate Starts for Kureo\_179:

(Start: 2 @87531 has 3 MA's), (3, 87618), (5, 87732), (6, 87738), (7, 87846), (8, 87879), (9, 87900), (10, 88086),

Gene: Marianna39\_179 Start: 88697, Stop: 89359, Start Num: 2

Candidate Starts for Marianna39\_179:

(Start: 2 @88697 has 3 MA's), (3, 88784), (6, 88904), (7, 89012), (8, 89045), (9, 89066), (10, 89252),

Gene: Marianna39\_177 Start: 87814, Stop: 88374, Start Num: 1

Candidate Starts for Marianna39\_177:

(Start: 1 @87814 has 3 MA's), (3, 87898), (4, 87961),

Gene: Paella\_180 Start: 88693, Stop: 89253, Start Num: 1

Candidate Starts for Paella\_180:

(Start: 1 @88693 has 3 MA's), (3, 88777), (4, 88840),

Gene: Paella\_182 Start: 89576, Stop: 90238, Start Num: 2

Candidate Starts for Paella\_182:

(Start: 2 @89576 has 3 MA's), (3, 89663), (5, 89777), (6, 89783), (7, 89891), (8, 89924), (9, 89945), (10, 90131),

Gene: Qui\_182 Start: 89573, Stop: 90235, Start Num: 2

Candidate Starts for Qui\_182:

(Start: 2 @89573 has 3 MA's), (3, 89660), (5, 89774), (6, 89780), (7, 89888), (8, 89921), (9, 89942), (10, 90128),

Gene: Qui\_180 Start: 88690, Stop: 89250, Start Num: 1

Candidate Starts for Qui\_180:

(Start: 1 @88690 has 3 MA's), (3, 88774), (4, 88837),