



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 216996 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216996 has 5 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Anamika\_90, Nimi13\_90, Bianmat\_91, Guillaume\_90
- Track 2 : Charianelly\_91

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

The start number called the most often in the published annotations is 6, it was called in 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anamika\_90, Bianmat\_91, Guillaume\_90, Nimi13\_90,

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

- Charianelly\_91,

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

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

Start 6:

- Found in 5 of 5 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 5
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Anamika\_90 (CS3), Bianmat\_91 (CS3), Guillaume\_90 (CS3), Nimi13\_90 (CS3),

Start 7:

- Found in 5 of 5 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Charianelly\_91 (CS3),

### **Summary by clusters:**

There is one cluster represented in this pham: CS3

Info for manual annotations of cluster CS3:

- Start number 6 was manually annotated 4 times for cluster CS3.
- Start number 7 was manually annotated 1 time for cluster CS3.

**Gene Information:**

Gene: Anamika\_90 Start: 71196, Stop: 70831, Start Num: 6

Candidate Starts for Anamika\_90:

(1, 71442), (2, 71382), (3, 71340), (4, 71319), (5, 71253), (Start: 6 @71196 has 4 MA's), (Start: 7 @71187 has 1 MA's), (8, 71166), (9, 71148), (10, 71037), (11, 71031), (12, 71025), (13, 71016), (14, 70986), (15, 70968), (16, 70923), (17, 70836),

Gene: Bianmat\_91 Start: 71208, Stop: 70843, Start Num: 6

Candidate Starts for Bianmat\_91:

(1, 71454), (2, 71394), (3, 71352), (4, 71331), (5, 71265), (Start: 6 @71208 has 4 MA's), (Start: 7 @71199 has 1 MA's), (8, 71178), (9, 71160), (10, 71049), (11, 71043), (12, 71037), (13, 71028), (14, 70998), (15, 70980), (16, 70935), (17, 70848),

Gene: Charianelly\_91 Start: 70912, Stop: 70556, Start Num: 7

Candidate Starts for Charianelly\_91:

(1, 71167), (2, 71107), (3, 71065), (4, 71044), (5, 70978), (Start: 6 @70921 has 4 MA's), (Start: 7 @70912 has 1 MA's), (8, 70891), (9, 70873), (10, 70762), (11, 70756), (12, 70750), (13, 70741), (14, 70711), (15, 70693), (16, 70648), (17, 70561),

Gene: Guillaume\_90 Start: 70929, Stop: 70564, Start Num: 6

Candidate Starts for Guillaume\_90:

(1, 71175), (2, 71115), (3, 71073), (4, 71052), (5, 70986), (Start: 6 @70929 has 4 MA's), (Start: 7 @70920 has 1 MA's), (8, 70899), (9, 70881), (10, 70770), (11, 70764), (12, 70758), (13, 70749), (14, 70719), (15, 70701), (16, 70656), (17, 70569),

Gene: Nimi13\_90 Start: 70919, Stop: 70554, Start Num: 6

Candidate Starts for Nimi13\_90:

(1, 71165), (2, 71105), (3, 71063), (4, 71042), (5, 70976), (Start: 6 @70919 has 4 MA's), (Start: 7 @70910 has 1 MA's), (8, 70889), (9, 70871), (10, 70760), (11, 70754), (12, 70748), (13, 70739), (14, 70709), (15, 70691), (16, 70646), (17, 70559),