# Pham 87400



1: Kampe_93 + 3

2: Gibbles_90

3: Keelan_111

4: Fryberger_109 + 4

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 87400 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87400 has 11 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Kampe_93, RobinSparkles_95, PatrickStar_93, Orchid_92
• Track 2 : Gibbles_90
• Track 3 : Keelan_111
• Track 4 : Fryberger_109, Volt_113, Guey18_114, Ronaldo_111, Ziko_112


***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 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fryberger_109, Guey18_114, Keelan_111, Ronaldo_111, Volt_113, Ziko_112,

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

Genes that do not have the "Most Annotated" start:
• Gibbles_90, Kampe_93, Orchid_92, PatrickStar_93, RobinSparkles_95,

**Summary by start number:**

Start 1:
• Found in 5 of 11 ( 45.5% ) of genes in pham
• Manual Annotations of this start: 5 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gibbles_90 (CX), Kampe_93 (CX), Orchid_92 (CX), PatrickStar_93 (CX), RobinSparkles_95 (CX),

Start 2:
• Found in 6 of 11 ( 54.5% ) of genes in pham
• Manual Annotations of this start: 6 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fryberger_109 (DP), Guey18_114 (DP), Keelan_111 (DP), Ronaldo_111 (DP), Volt_113 (DP), Ziko_112 (DP),

**Summary by clusters:**

There are 2 clusters represented in this pham: CX, DP,

Info for manual annotations of cluster CX:
•Start number 1 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster DP:
•Start number 2 was manually annotated 6 times for cluster DP.



*Gene Information:*
Gene: Fryberger_109 Start: 53471, Stop: 53668, Start Num: 2
Candidate Starts for Fryberger_109:
(Start: 2 @53471 has 6 MA's), (5, 53558),

Gene: Gibbles_90 Start: 68005, Stop: 67811, Start Num: 1
Candidate Starts for Gibbles_90:
(Start: 1 @68005 has 5 MA's), (6, 67867),

Gene: Guey18_114 Start: 54794, Stop: 54991, Start Num: 2
Candidate Starts for Guey18_114:
(Start: 2 @54794 has 6 MA's), (5, 54881),

Gene: Kampe_93 Start: 68272, Stop: 68078, Start Num: 1
Candidate Starts for Kampe_93:
(Start: 1 @68272 has 5 MA's), (4, 68224), (6, 68134),

Gene: Keelan_111 Start: 54546, Stop: 54746, Start Num: 2
Candidate Starts for Keelan_111:
(Start: 2 @54546 has 6 MA's), (3, 54582), (5, 54633), (7, 54681),

Gene: Orchid_92 Start: 68273, Stop: 68079, Start Num: 1
Candidate Starts for Orchid_92:
(Start: 1 @68273 has 5 MA's), (4, 68225), (6, 68135),

Gene: PatrickStar_93 Start: 68272, Stop: 68078, Start Num: 1
Candidate Starts for PatrickStar_93:
(Start: 1 @68272 has 5 MA's), (4, 68224), (6, 68134),

Gene: RobinSparkles_95 Start: 68126, Stop: 67932, Start Num: 1
Candidate Starts for RobinSparkles_95:
(Start: 1 @68126 has 5 MA's), (4, 68078), (6, 67988),

Gene: Ronaldo_111 Start: 54376, Stop: 54573, Start Num: 2
Candidate Starts for Ronaldo_111:
(Start: 2 @54376 has 6 MA's), (5, 54463),

Gene: Volt_113 Start: 54540, Stop: 54737, Start Num: 2
Candidate Starts for Volt_113:

(Start: 2 @54540 has 6 MA's), (5, 54627),

Gene: Ziko_112 Start: 54382, Stop: 54579, Start Num: 2
Candidate Starts for Ziko_112:
(Start: 2 @54382 has 6 MA's), (5, 54469),