# Pham 87605



1: Rimmer_65 + 6
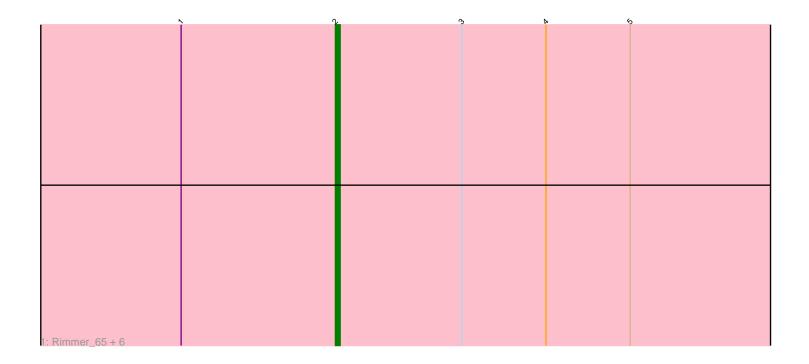
2: Cactus_67 + 1

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 87605 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87605 has 9 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Rimmer_65, Contagion_60, Bruin_61, Youngblood_67, Terminus_67, RiverMonster_64, Czyszczon1_65
• Track 2 : Cactus_67, xkcd_67


***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 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bruin_61, Contagion_60, Czyszczon1_65, Rimmer_65, RiverMonster_64, Terminus_67, Youngblood_67,

Genes that have the "Most Annotated" start but do not call it:
• Cactus_67, xkcd_67,

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

**Summary by start number:**

Start 2:
• Found in 9 of 9 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 7 of 9
• Called 77.8% of time when present
• Phage (with cluster) where this start called: Bruin_61 (E), Contagion_60 (E), Czyszczon1_65 (E), Rimmer_65 (E), RiverMonster_64 (E), Terminus_67 (E), Youngblood_67 (E),

Start 3:
• Found in 9 of 9 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Cactus_67 (E), xkcd_67 (E),

**Summary by clusters:**

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:
•Start number 2 was manually annotated 7 times for cluster E.
•Start number 3 was manually annotated 2 times for cluster E.

*Gene Information:*
Gene: Bruin_61 Start: 42111, Stop: 42239, Start Num: 2
Candidate Starts for Bruin_61:
(1, 42078), (Start: 2 @42111 has 7 MA's), (Start: 3 @42138 has 2 MA's), (4, 42156), (5, 42174),

Gene: Cactus_67 Start: 42618, Stop: 42719, Start Num: 3
Candidate Starts for Cactus_67:
(1, 42558), (Start: 2 @42591 has 7 MA's), (Start: 3 @42618 has 2 MA's), (4, 42636), (5, 42654),

Gene: Contagion_60 Start: 42392, Stop: 42520, Start Num: 2
Candidate Starts for Contagion_60:
(1, 42359), (Start: 2 @42392 has 7 MA's), (Start: 3 @42419 has 2 MA's), (4, 42437), (5, 42455),

Gene: Czyszczon1_65 Start: 43101, Stop: 43229, Start Num: 2
Candidate Starts for Czyszczon1_65:
(1, 43068), (Start: 2 @43101 has 7 MA's), (Start: 3 @43128 has 2 MA's), (4, 43146), (5, 43164),

Gene: Rimmer_65 Start: 43428, Stop: 43556, Start Num: 2
Candidate Starts for Rimmer_65:
(1, 43395), (Start: 2 @43428 has 7 MA's), (Start: 3 @43455 has 2 MA's), (4, 43473), (5, 43491),

Gene: RiverMonster_64 Start: 43257, Stop: 43385, Start Num: 2
Candidate Starts for RiverMonster_64:
(1, 43224), (Start: 2 @43257 has 7 MA's), (Start: 3 @43284 has 2 MA's), (4, 43302), (5, 43320),

Gene: Terminus_67 Start: 44109, Stop: 44237, Start Num: 2
Candidate Starts for Terminus_67:
(1, 44076), (Start: 2 @44109 has 7 MA's), (Start: 3 @44136 has 2 MA's), (4, 44154), (5, 44172),

Gene: Youngblood_67 Start: 44039, Stop: 44167, Start Num: 2
Candidate Starts for Youngblood_67:
(1, 44006), (Start: 2 @44039 has 7 MA's), (Start: 3 @44066 has 2 MA's), (4, 44084), (5, 44102),

Gene: xkcd_67 Start: 44256, Stop: 44357, Start Num: 3
Candidate Starts for xkcd_67:
(1, 44196), (Start: 2 @44229 has 7 MA's), (Start: 3 @44256 has 2 MA's), (4, 44274), (5, 44292),