# Pham 88357

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 88357 Report

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

Pham number 88357 has 6 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Angela_126, MulchMansion_125
• Track 2 : Bmoc_129
• Track 3 : Paradiddles_122
• Track 4 : LilMartin_125
• Track 5 : Kenrey_230


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

The start number called the most often in the published annotations is 3, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Angela_126, Bmoc_129, Kenrey_230, LilMartin_125, MulchMansion_125,

Genes that have the "Most Annotated" start but do not call it:
• Paradiddles_122,

Genes that do not have the "Most Annotated" start:
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**Summary by start number:**

Start 3:
• Found in 6 of 6 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 5 of 6
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Angela_126 (BE1), Bmoc_129 (BE1), Kenrey_230 (BK1), LilMartin_125 (BE1), MulchMansion_125 (BE1),

Start 5:
• Found in 5 of 6 ( 83.3% ) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Paradiddles_122 (BE1),

**Summary by clusters:**

There are 2 clusters represented in this pham: BE1, BK1,

Info for manual annotations of cluster BE1:
•Start number 3 was manually annotated 4 times for cluster BE1.
•Start number 5 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BK1:
•Start number 3 was manually annotated 1 time for cluster BK1.


*Gene Information:*
Gene: Angela_126 Start: 81784, Stop: 82164, Start Num: 3
Candidate Starts for Angela_126:
(1, 81718), (2, 81748), (Start: 3 @81784 has 5 MA's), (Start: 5 @81856 has 1 MA's), (6, 81883), (11, 82078), (13, 82105), (17, 82159),

Gene: Bmoc_129 Start: 82073, Stop: 82459, Start Num: 3
Candidate Starts for Bmoc_129:
(2, 82037), (Start: 3 @82073 has 5 MA's), (Start: 5 @82145 has 1 MA's), (7, 82301), (10, 82349),

Gene: Kenrey_230 Start: 110017, Stop: 110415, Start Num: 3
Candidate Starts for Kenrey_230:
(Start: 3 @110017 has 5 MA's), (8, 110242), (11, 110302), (12, 110308), (16, 110374), (18, 110386),

Gene: LilMartin_125 Start: 81686, Stop: 82066, Start Num: 3
Candidate Starts for LilMartin_125:
(1, 81620), (2, 81650), (Start: 3 @81686 has 5 MA's), (Start: 5 @81758 has 1 MA's), (6, 81785), (11, 81980), (13, 82007), (15, 82037), (17, 82061),

Gene: MulchMansion_125 Start: 81732, Stop: 82112, Start Num: 3
Candidate Starts for MulchMansion_125:
(1, 81666), (2, 81696), (Start: 3 @81732 has 5 MA's), (Start: 5 @81804 has 1 MA's), (6, 81831), (11, 82026), (13, 82053), (17, 82107),

Gene: Paradiddles_122 Start: 83582, Stop: 83890, Start Num: 5
Candidate Starts for Paradiddles_122:
(2, 83474), (Start: 3 @83510 has 5 MA's), (4, 83558), (Start: 5 @83582 has 1 MA's), (9, 83750), (10, 83780), (14, 83849), (17, 83885),