# Pham 291844

3
4
5
6
7
8
9
10
1: Hami1_60
3
4
5
6
7
8
9
2: Pelly_67
1
2
4
5
6
7
8
9
11
3: Yoshi_77
1
2
4
5
6
7
9
4: Demsculpinboyz_75
1
2
4
5
6
7
8
9
11
5: ThetaBob_69
2
11
6: Nekros_77 + 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 291844 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291844 has 7 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Hami1_60
• Track 2 : Pelly_67
• Track 3 : Yoshi_77
• Track 4 : Demsculpinboyz_75
• Track 5 : ThetaBob_69
• Track 6 : Nekros_77, Nibley_71

***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 2 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Demsculpinboyz_75, Nekros_77, Nibley_71, Yoshi_77,

Genes that have the "Most Annotated" start but do not call it:
• ThetaBob_69,

Genes that do not have the "Most Annotated" start:
• Hami1_60, Pelly_67,

**Summary by start number:**

Start 2:
• Found in 5 of 7 ( 71.4% ) of genes in pham
• Manual Annotations of this start: 2 of 5
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Demsculpinboyz_75 (F2), Nekros_77 (J), Nibley_71 (J), Yoshi_77 (F2),

Start 3:
• Found in 2 of 7 ( 28.6% ) of genes in pham
• Manual Annotations of this start: 2 of 5
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Hami1_60 (A1), Pelly_67 (A1),

Start 5:
• Found in 5 of 7 ( 71.4% ) 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: ThetaBob_69 (F4),

**Summary by clusters:**

There are 4 clusters represented in this pham: A1, F2, J, F4,

Info for manual annotations of cluster A1:
•Start number 3 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster F2:
•Start number 2 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster F4:
•Start number 5 was manually annotated 1 time for cluster F4.

***Gene Information:***

Gene: Demsculpinboyz_75 Start: 41100, Stop: 41363, Start Num: 2
Candidate Starts for Demsculpinboyz_75:
(1, 41073), (Start: 2 @41100 has 2 MA's), (4, 41133), (Start: 5 @41145 has 1 MA's), (6, 41166), (7, 41190), (9, 41229),

Gene: Hami1_60 Start: 38171, Stop: 37893, Start Num: 3
Candidate Starts for Hami1_60:
(Start: 3 @38171 has 2 MA's), (4, 38138), (Start: 5 @38126 has 1 MA's), (6, 38105), (7, 38081), (8, 38045), (9, 38042), (10, 37982),

Gene: Nekros_77 Start: 50383, Stop: 50132, Start Num: 2
Candidate Starts for Nekros_77:
(Start: 2 @50383 has 2 MA's), (11, 50146),

Gene: Nibley_71 Start: 47231, Stop: 46980, Start Num: 2
Candidate Starts for Nibley_71:
(Start: 2 @47231 has 2 MA's), (11, 46994),

Gene: Pelly_67 Start: 44535, Stop: 44257, Start Num: 3
Candidate Starts for Pelly_67:
(Start: 3 @44535 has 2 MA's), (4, 44502), (Start: 5 @44490 has 1 MA's), (6, 44469), (7, 44445), (8, 44409), (9, 44406),

Gene: ThetaBob_69 Start: 42635, Stop: 42865, Start Num: 5
Candidate Starts for ThetaBob_69:
(1, 42563), (Start: 2 @42590 has 2 MA's), (4, 42623), (Start: 5 @42635 has 1 MA's), (6, 42656), (7, 42680), (8, 42716), (9, 42719), (11, 42851),

Gene: Yoshi_77 Start: 42854, Stop: 43129, Start Num: 2
Candidate Starts for Yoshi_77:
(1, 42827), (Start: 2 @42854 has 2 MA's), (4, 42887), (Start: 5 @42899 has 1 MA's), (6, 42920), (7, 42944), (8, 42980), (9, 42983), (11, 43115),