Pham 106824

1: Mudcat_73 + 5

2: Dynamite_77 + 2

3: Cheesy_78

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 106824 Report

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

Pham number 106824 has 10 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Mudcat_73, Elsa_77, Nason_77, Arcadia_77, Heisenberger_76, JEGGS_76
• Track 2 : Dynamite_77, Hankly_77, NapoleonB_78
• Track 3 : Cheesy_78

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

The start number called the most often in the published annotations is 5, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arcadia_77, Cheesy_78, Elsa_77, Heisenberger_76, JEGGS_76, Mudcat_73, Nason_77,

Genes that have the "Most Annotated" start but do not call it:
• Dynamite_77, Hankly_77, NapoleonB_78,

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

Summary by start number:

Start 4:
• Found in 10 of 10 (100.0%) of genes in pham
• Manual Annotations of this start: 3 of 10
• Called 30.0% of time when present
• Phage (with cluster) where this start called: Dynamite_77 (AM), Hankly_77 (AM), NapoleonB_78 (AM),

Start 5:
• Found in 10 of 10 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 10
• Called 70.0% of time when present

• Phage (with cluster) where this start called: Arcadia_77 (AM), Cheesy_78 (AM), Elsa_77 (AM), Heisenberger_76 (AM), JEGGS_76 (AM), Mudcat_73 (AM), Nason_77 (AM),

Summary by clusters:

There is one cluster represented in this pham: AM

Info for manual annotations of cluster AM:
•Start number 4 was manually annotated 3 times for cluster AM.
•Start number 5 was manually annotated 7 times for cluster AM.

Gene Information:
Gene: Arcadia_77 Start: 46232, Stop: 46486, Start Num: 5
Candidate Starts for Arcadia_77:
(1, 46097), (2, 46112), (3, 46148), (Start: 4 @46178 has 3 MA's), (Start: 5 @46232 has 7 MA's), (6, 46364), (7, 46391), (8, 46436),

Gene: Cheesy_78 Start: 46024, Stop: 46278, Start Num: 5
Candidate Starts for Cheesy_78:
(1, 45889), (2, 45904), (Start: 4 @45970 has 3 MA's), (Start: 5 @46024 has 7 MA's), (6, 46156), (7, 46183), (8, 46228),

Gene: Dynamite_77 Start: 46030, Stop: 46338, Start Num: 4
Candidate Starts for Dynamite_77:
(1, 45949), (2, 45964), (3, 46000), (Start: 4 @46030 has 3 MA's), (Start: 5 @46084 has 7 MA's), (6, 46216), (7, 46243), (8, 46288),

Gene: Elsa_77 Start: 46232, Stop: 46486, Start Num: 5
Candidate Starts for Elsa_77:
(1, 46097), (2, 46112), (3, 46148), (Start: 4 @46178 has 3 MA's), (Start: 5 @46232 has 7 MA's), (6, 46364), (7, 46391), (8, 46436),

Gene: Hankly_77 Start: 45668, Stop: 45976, Start Num: 4
Candidate Starts for Hankly_77:
(1, 45587), (2, 45602), (3, 45638), (Start: 4 @45668 has 3 MA's), (Start: 5 @45722 has 7 MA's), (6, 45854), (7, 45881), (8, 45926),

Gene: Heisenberger_76 Start: 45489, Stop: 45743, Start Num: 5
Candidate Starts for Heisenberger_76:
(1, 45354), (2, 45369), (3, 45405), (Start: 4 @45435 has 3 MA's), (Start: 5 @45489 has 7 MA's), (6, 45621), (7, 45648), (8, 45693),

Gene: JEGGS_76 Start: 45568, Stop: 45822, Start Num: 5
Candidate Starts for JEGGS_76:
(1, 45433), (2, 45448), (3, 45484), (Start: 4 @45514 has 3 MA's), (Start: 5 @45568 has 7 MA's), (6, 45700), (7, 45727), (8, 45772),

Gene: Mudcat_73 Start: 46926, Stop: 47180, Start Num: 5
Candidate Starts for Mudcat_73:

(1, 46791), (2, 46806), (3, 46842), (Start: 4 @46872 has 3 MA's), (Start: 5 @46926 has 7 MA's), (6, 47058), (7, 47085), (8, 47130),

Gene: NapoleonB_78 Start: 46030, Stop: 46338, Start Num: 4
Candidate Starts for NapoleonB_78:
(1, 45949), (2, 45964), (3, 46000), (Start: 4 @46030 has 3 MA's), (Start: 5 @46084 has 7 MA's), (6, 46216), (7, 46243), (8, 46288),

Gene: Nason_77 Start: 46232, Stop: 46486, Start Num: 5
Candidate Starts for Nason_77:
(1, 46097), (2, 46112), (3, 46148), (Start: 4 @46178 has 3 MA's), (Start: 5 @46232 has 7 MA's), (6, 46364), (7, 46391), (8, 46436),