Pham 107154

1: Mask_71 + 2

2: Kevin1_55

3: Phayonce_53 + 1

4: ThulaThula_60

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 107154 Report

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

Pham number 107154 has 7 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Mask_71, Rita_69, Sejanus_70
• Track 2 : Kevin1_55
• Track 3 : Phayonce_53, Mao1_73
• Track 4 : ThulaThula_60

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

The start number called the most often in the published annotations is 9, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Kevin1_55, Mask_71, Rita_69, Sejanus_70, ThulaThula_60,

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

Genes that do not have the "Most Annotated" start:
• Mao1_73, Phayonce_53,

Summary by start number:

Start 7:
• Found in 2 of 7 (28.6%) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mao1_73 (AD), Phayonce_53 (P5),

Start 9:
• Found in 5 of 7 (71.4%) of genes in pham
• Manual Annotations of this start: 5 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kevin1_55 (N), Mask_71 (AD), Rita_69 (F1), Sejanus_70 (AD), ThulaThula_60 (P5),

Summary by clusters:

There are 4 clusters represented in this pham: F1, N, AD, P5,

Info for manual annotations of cluster AD:
•Start number 9 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster F1:
•Start number 9 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster N:
•Start number 9 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P5:
•Start number 7 was manually annotated 1 time for cluster P5.
•Start number 9 was manually annotated 1 time for cluster P5.

Gene Information:
Gene: Kevin1_55 Start: 35745, Stop: 35945, Start Num: 9
Candidate Starts for Kevin1_55:
(Start: 9 @35745 has 5 MA's), (10, 35832), (11, 35907),

Gene: Mao1_73 Start: 51647, Stop: 51865, Start Num: 7
Candidate Starts for Mao1_73:
(1, 51500), (2, 51551), (4, 51593), (6, 51620), (Start: 7 @51647 has 1 MA's), (8, 51653), (10, 51752), (11, 51827),

Gene: Mask_71 Start: 54573, Stop: 54773, Start Num: 9
Candidate Starts for Mask_71:
(5, 54531), (6, 54537), (Start: 9 @54573 has 5 MA's), (10, 54660), (11, 54735),

Gene: Phayonce_53 Start: 37810, Stop: 38028, Start Num: 7
Candidate Starts for Phayonce_53:
(1, 37663), (2, 37714), (4, 37756), (6, 37783), (Start: 7 @37810 has 1 MA's), (8, 37816), (10, 37915), (11, 37990),

Gene: Rita_69 Start: 41521, Stop: 41721, Start Num: 9
Candidate Starts for Rita_69:
(5, 41479), (6, 41485), (Start: 9 @41521 has 5 MA's), (10, 41608), (11, 41683),

Gene: Sejanus_70 Start: 53034, Stop: 53234, Start Num: 9
Candidate Starts for Sejanus_70:
(5, 52992), (6, 52998), (Start: 9 @53034 has 5 MA's), (10, 53121), (11, 53196),

Gene: ThulaThula_60 Start: 40848, Stop: 41048, Start Num: 9
Candidate Starts for ThulaThula_60:
(3, 40767), (Start: 9 @40848 has 5 MA's), (10, 40935), (11, 41010),