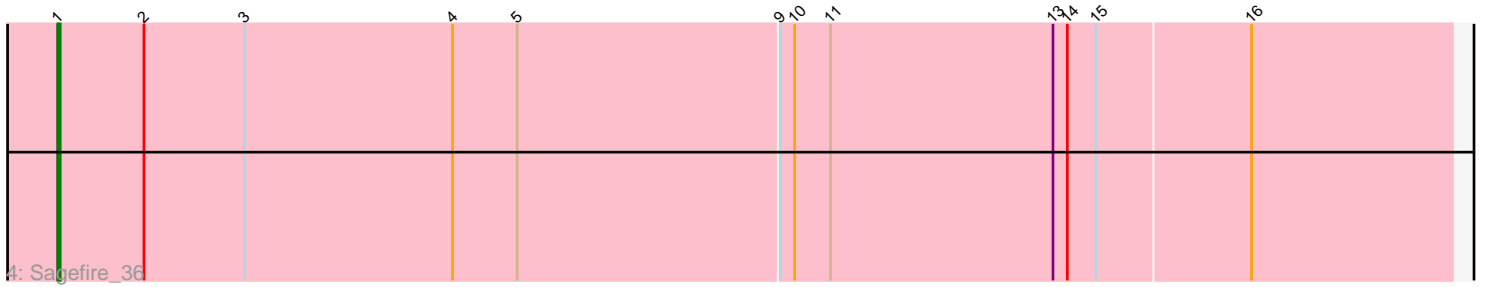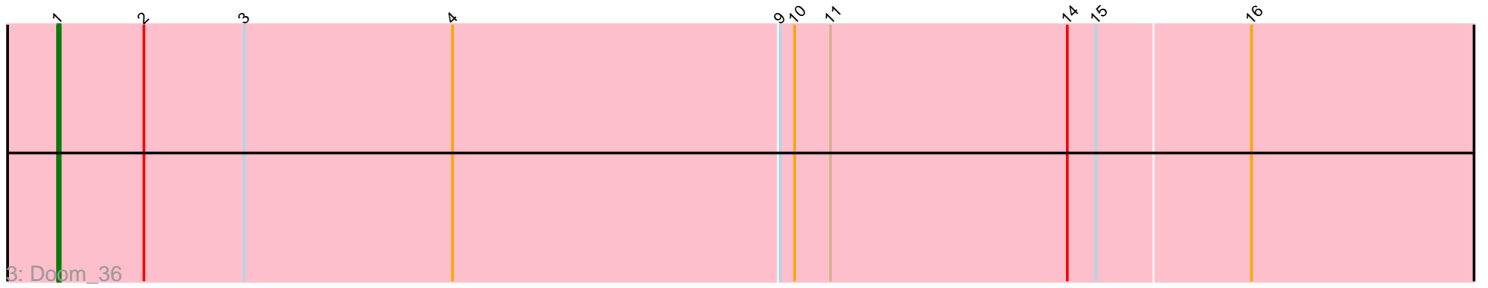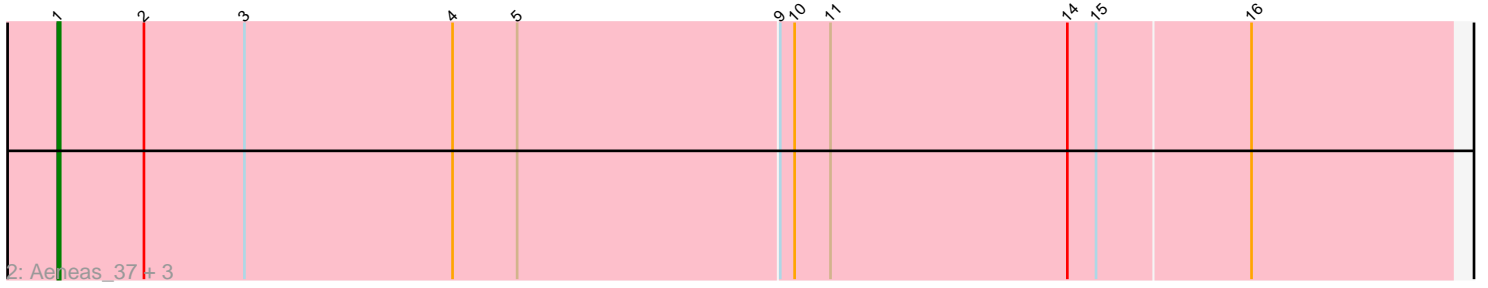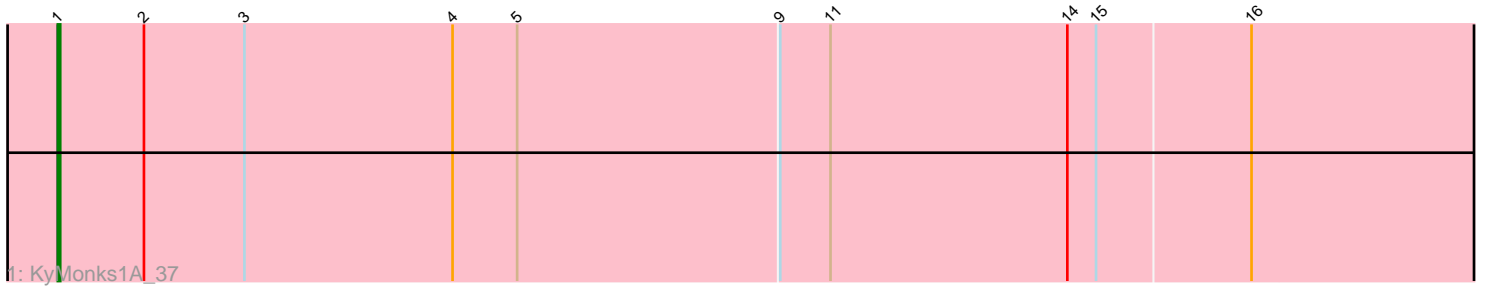# Pham 165470

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 165470 Report

This analysis was run 07/09/24 on database version 566.

Pham number 165470 has 8 members, 1 are drafts.

Phages represented in each track:
• Track 1 : KyMonks1A_37
• Track 2 : Aeneas_37, Gwendoluna_38, Niza_37, Acme_37
• Track 3 : Doom_36
• Track 4 : Sagefire_36
• Track 5 : Rubeus_36

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acme_37, Aeneas_37, Doom_36, Gwendoluna_38, KyMonks1A_37, Niza_37, Rubeus_36, Sagefire_36,

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

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

Summary by start number:

Start 1:
• Found in 8 of 8 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acme_37 (A1), Aeneas_37 (A1), Doom_36 (A1), Gwendoluna_38 (A1), KyMonks1A_37 (A1), Niza_37 (A1), Rubeus_36 (A1), Sagefire_36 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:
•Start number 1 was manually annotated 7 times for cluster A1.

Gene Information:

Gene: Acme_37 Start: 28354, Stop: 28974, Start Num: 1
Candidate Starts for Acme_37:
(Start: 1 @28354 has 7 MA's), (2, 28390), (3, 28432), (4, 28519), (5, 28546), (9, 28654), (10, 28660), (11, 28675), (14, 28774), (15, 28786), (16, 28849),

Gene: Aeneas_37 Start: 28390, Stop: 28968, Start Num: 1
Candidate Starts for Aeneas_37:
(Start: 1 @28390 has 7 MA's), (2, 28426), (3, 28468), (4, 28555), (5, 28582), (9, 28690), (10, 28696), (11, 28711), (14, 28810), (15, 28822), (16, 28885),

Gene: Doom_36 Start: 28822, Stop: 29508, Start Num: 1
Candidate Starts for Doom_36:
(Start: 1 @28822 has 7 MA's), (2, 28858), (3, 28900), (4, 28987), (9, 29122), (10, 29128), (11, 29143), (14, 29242), (15, 29254), (16, 29317),

Gene: Gwendoluna_38 Start: 29981, Stop: 30601, Start Num: 1
Candidate Starts for Gwendoluna_38:
(Start: 1 @29981 has 7 MA's), (2, 30017), (3, 30059), (4, 30146), (5, 30173), (9, 30281), (10, 30287), (11, 30302), (14, 30401), (15, 30413), (16, 30476),

Gene: KyMonks1A_37 Start: 28373, Stop: 28993, Start Num: 1
Candidate Starts for KyMonks1A_37:
(Start: 1 @28373 has 7 MA's), (2, 28409), (3, 28451), (4, 28538), (5, 28565), (9, 28673), (11, 28694), (14, 28793), (15, 28805), (16, 28868),

Gene: Niza_37 Start: 29141, Stop: 29761, Start Num: 1
Candidate Starts for Niza_37:
(Start: 1 @29141 has 7 MA's), (2, 29177), (3, 29219), (4, 29306), (5, 29333), (9, 29441), (10, 29447), (11, 29462), (14, 29561), (15, 29573), (16, 29636),

Gene: Rubeus_36 Start: 28138, Stop: 28710, Start Num: 1
Candidate Starts for Rubeus_36:
(Start: 1 @28138 has 7 MA's), (2, 28174), (3, 28216), (5, 28330), (6, 28381), (7, 28396), (8, 28414), (12, 28525), (17, 28672),

Gene: Sagefire_36 Start: 28880, Stop: 29458, Start Num: 1
Candidate Starts for Sagefire_36:
(Start: 1 @28880 has 7 MA's), (2, 28916), (3, 28958), (4, 29045), (5, 29072), (9, 29180), (10, 29186), (11, 29201), (13, 29294), (14, 29300), (15, 29312), (16, 29375),