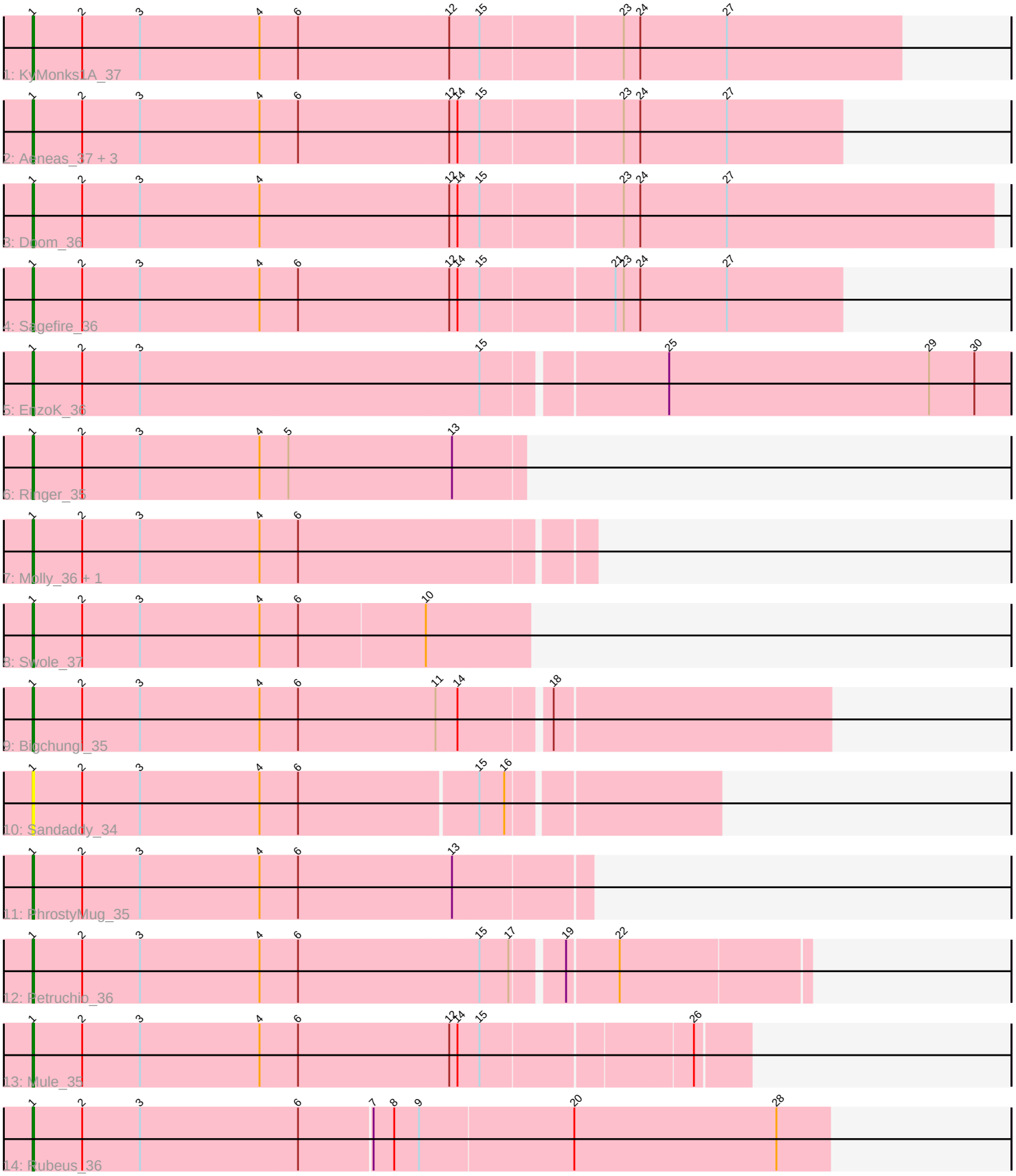
Pham 341193


1: KyMonksLA_37
2: Aeneas_37 + 3
3: Doom_36
4: Sagefire_36
5: EnzoK_36
6: Ringer_36
7: Molly_36 + 1
8: Swole_37
9: Bigchungl_35
10: Sandaddy_34
11: RhrostyMug_35
12: Retruchib_36
13: Mule_35
14: Rubeus_36

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 341193 Report

This analysis was run 11/14/26 on database version 672.

Pham number 341193 has 18 members, 1 are drafts.

Phages represented in each track:
• Track 1 : KyMonks1A_37
• Track 2 : Aeneas_37, Gwendoluna_37, Niza_37, Acme_37
• Track 3 : Doom_36
• Track 4 : Sagefire_36
• Track 5 : EnzoK_36
• Track 6 : Ringer_35
• Track 7 : Molly_36, Maroc7_34
• Track 8 : Swole_37
• Track 9 : Bigchungi_35
• Track 10 : Sandaddy_34
• Track 11 : PhrostyMug_35
• Track 12 : Petruchio_36
• Track 13 : Mule_35
• Track 14 : 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 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acme_37, Aeneas_37, Bigchungi_35, Doom_36, EnzoK_36, Gwendoluna_37, KyMonks1A_37, Maroc7_34, Molly_36, Mule_35, Niza_37, Petruchio_36, PhrostyMug_35, Ringer_35, Rubeus_36, Sagefire_36, Sandaddy_34, Swole_37,

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 18 of 18 (100.0%) of genes in pham
• Manual Annotations of this start: 17 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acme_37 (A1), Aeneas_37 (A1), Bigchungi_35 (A1), Doom_36 (A1), EnzoK_36 (A1), Gwendoluna_37 (A1), KyMonks1A_37 (A1), Maroc7_34 (A1), Molly_36 (A1), Mule_35 (A1), Niza_37 (A1), Petruchio_36 (A1), PhrostyMug_35 (A1), Ringer_35 (A1), Rubeus_36 (A1), Sagefire_36 (A1), Sandaddy_34 (A1), Swole_37 (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 17 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 17 MA's), (2, 28390), (3, 28432), (4, 28519), (6, 28546), (12, 28654), (14, 28660), (15, 28675), (23, 28774), (24, 28786), (27, 28849),

Gene: Aeneas_37 Start: 28390, Stop: 28968, Start Num: 1
Candidate Starts for Aeneas_37:
(Start: 1 @28390 has 17 MA's), (2, 28426), (3, 28468), (4, 28555), (6, 28582), (12, 28690), (14, 28696), (15, 28711), (23, 28810), (24, 28822), (27, 28885),

Gene: Bigchungi_35 Start: 28037, Stop: 28600, Start Num: 1
Candidate Starts for Bigchungi_35:
(Start: 1 @28037 has 17 MA's), (2, 28073), (3, 28115), (4, 28202), (6, 28229), (11, 28328), (14, 28343), (18, 28403),

Gene: Doom_36 Start: 28822, Stop: 29508, Start Num: 1
Candidate Starts for Doom_36:
(Start: 1 @28822 has 17 MA's), (2, 28858), (3, 28900), (4, 28987), (12, 29122), (14, 29128), (15, 29143), (23, 29242), (24, 29254), (27, 29317),

Gene: EnzoK_36 Start: 28242, Stop: 28937, Start Num: 1
Candidate Starts for EnzoK_36:
(Start: 1 @28242 has 17 MA's), (2, 28278), (3, 28320), (15, 28563), (25, 28689), (29, 28878), (30, 28911),

Gene: Gwendoluna_37 Start: 29981, Stop: 30601, Start Num: 1
Candidate Starts for Gwendoluna_37:
(Start: 1 @29981 has 17 MA's), (2, 30017), (3, 30059), (4, 30146), (6, 30173), (12, 30281), (14, 30287), (15, 30302), (23, 30401), (24, 30413), (27, 30476),

Gene: KyMonks1A_37 Start: 28373, Stop: 28993, Start Num: 1
Candidate Starts for KyMonks1A_37:

(Start: 1 @28373 has 17 MA's), (2, 28409), (3, 28451), (4, 28538), (6, 28565), (12, 28673), (15, 28694), (23, 28793), (24, 28805), (27, 28868),

Gene: Maroc7_34 Start: 27763, Stop: 28158, Start Num: 1
Candidate Starts for Maroc7_34:
(Start: 1 @27763 has 17 MA's), (2, 27799), (3, 27841), (4, 27928), (6, 27955),

Gene: Molly_36 Start: 27859, Stop: 28254, Start Num: 1
Candidate Starts for Molly_36:
(Start: 1 @27859 has 17 MA's), (2, 27895), (3, 27937), (4, 28024), (6, 28051),

Gene: Mule_35 Start: 28097, Stop: 28600, Start Num: 1
Candidate Starts for Mule_35:
(Start: 1 @28097 has 17 MA's), (2, 28133), (3, 28175), (4, 28262), (6, 28289), (12, 28397), (14, 28403), (15, 28418), (26, 28562),

Gene: Niza_37 Start: 29141, Stop: 29761, Start Num: 1
Candidate Starts for Niza_37:
(Start: 1 @29141 has 17 MA's), (2, 29177), (3, 29219), (4, 29306), (6, 29333), (12, 29441), (14, 29447), (15, 29462), (23, 29561), (24, 29573), (27, 29636),

Gene: Petruchio_36 Start: 28445, Stop: 28990, Start Num: 1
Candidate Starts for Petruchio_36:
(Start: 1 @28445 has 17 MA's), (2, 28481), (3, 28523), (4, 28610), (6, 28637), (15, 28766), (17, 28787), (19, 28820), (22, 28856),

Gene: PhrostyMug_35 Start: 28094, Stop: 28492, Start Num: 1
Candidate Starts for PhrostyMug_35:
(Start: 1 @28094 has 17 MA's), (2, 28130), (3, 28172), (4, 28259), (6, 28286), (13, 28397),

Gene: Ringer_35 Start: 28755, Stop: 29108, Start Num: 1
Candidate Starts for Ringer_35:
(Start: 1 @28755 has 17 MA's), (2, 28791), (3, 28833), (4, 28920), (5, 28941), (13, 29058),

Gene: Rubeus_36 Start: 28138, Stop: 28710, Start Num: 1
Candidate Starts for Rubeus_36:
(Start: 1 @28138 has 17 MA's), (2, 28174), (3, 28216), (6, 28330), (7, 28381), (8, 28396), (9, 28414), (20, 28525), (28, 28672),

Gene: Sagefire_36 Start: 28880, Stop: 29458, Start Num: 1
Candidate Starts for Sagefire_36:
(Start: 1 @28880 has 17 MA's), (2, 28916), (3, 28958), (4, 29045), (6, 29072), (12, 29180), (14, 29186), (15, 29201), (21, 29294), (23, 29300), (24, 29312), (27, 29375),

Gene: Sandaddy_34 Start: 27993, Stop: 28475, Start Num: 1
Candidate Starts for Sandaddy_34:
(Start: 1 @27993 has 17 MA's), (2, 28029), (3, 28071), (4, 28158), (6, 28185), (15, 28311), (16, 28329),

Gene: Swole_37 Start: 28576, Stop: 28929, Start Num: 1
Candidate Starts for Swole_37:
(Start: 1 @28576 has 17 MA's), (2, 28612), (3, 28654), (4, 28741), (6, 28768), (10, 28858),