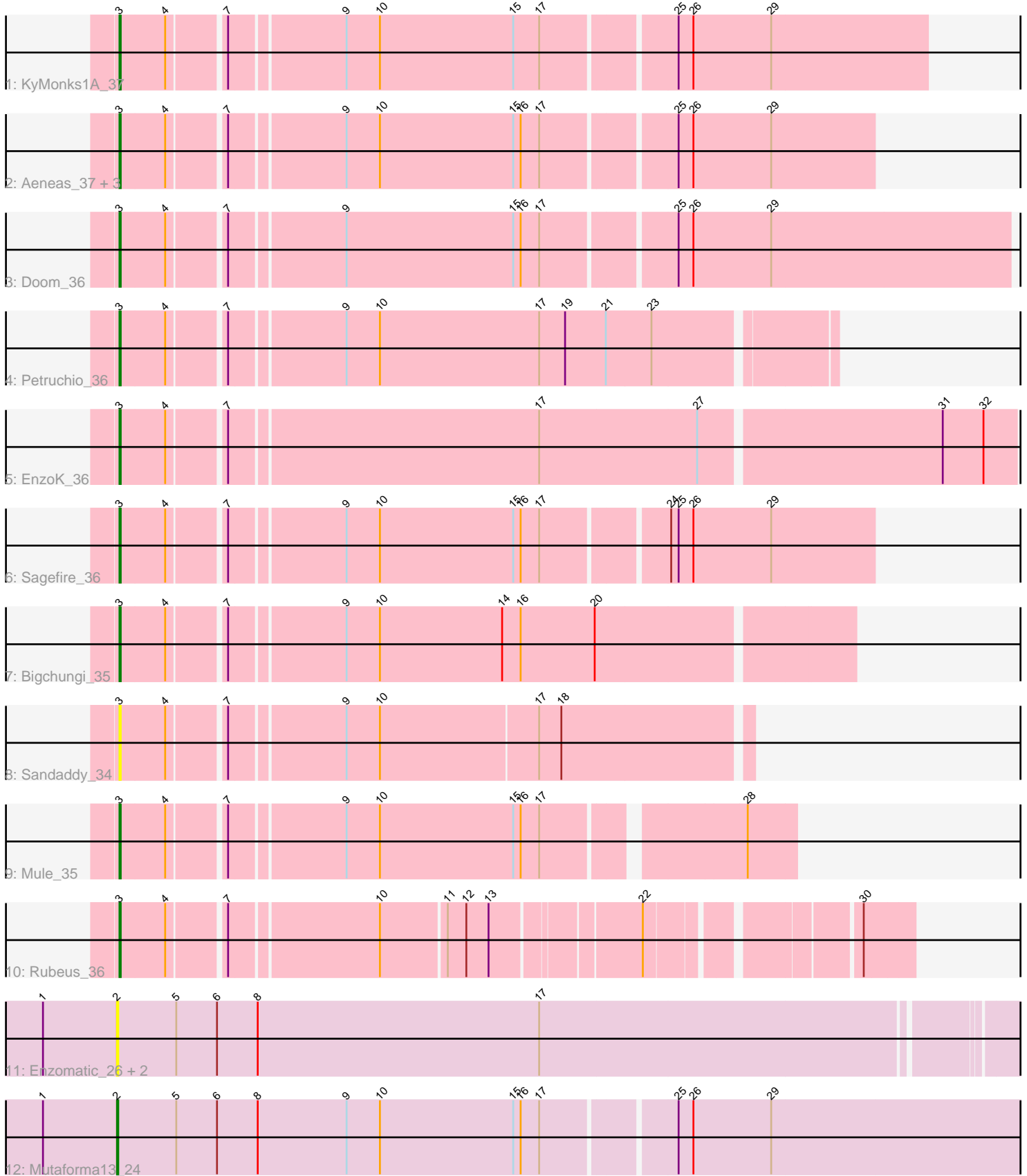


Pham 297035



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 297035 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297035 has 17 members, 4 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 : Petruccio_36
- Track 5 : EnzoK_36
- Track 6 : Sagefire_36
- Track 7 : Bigchunggi_35
- Track 8 : Sandaddy_34
- Track 9 : Mule_35
- Track 10 : Rubeus_36
- Track 11 : Enzomatic_26, Polo2Bam_26, SeaLumen_25
- Track 12 : Mutaforma13_24

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

The start number called the most often in the published annotations is 3, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acme_37, Aeneas_37, Bigchunggi_35, Doom_36, EnzoK_36, Gwendoluna_37, KyMonks1A_37, Mule_35, Niza_37, Petruccio_36, Rubeus_36, Sagefire_36, Sandaddy_34,

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

-

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

- Enzomatic_26, Mutaforma13_24, Polo2Bam_26, SeaLumen_25,

Summary by start number:

Start 2:

- Found in 4 of 17 (23.5%) of genes in pham
- Manual Annotations of this start: 1 of 13

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enzomatic_26 (F1), Mutaforma13_24 (F1), Polo2Bam_26 (F1), SeaLumen_25 (F1),

Start 3:

- Found in 13 of 17 (76.5%) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acme_37 (A1), Aeneas_37 (A1), Bigchungji_35 (A1), Doom_36 (A1), EnzoK_36 (A1), Gwendoluna_37 (A1), KyMonks1A_37 (A1), Mule_35 (A1), Niza_37 (A1), Petruccio_36 (A1), Rubeus_36 (A1), Sagefire_36 (A1), Sandaddy_34 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, F1,

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 12 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 2 was manually annotated 1 time for cluster F1.

Gene Information:

Gene: Acme_37 Start: 28354, Stop: 28974, Start Num: 3

Candidate Starts for Acme_37:

(Start: 3 @28354 has 12 MA's), (4, 28390), (7, 28432), (9, 28519), (10, 28546), (15, 28654), (16, 28660), (17, 28675), (25, 28774), (26, 28786), (29, 28849),

Gene: Aeneas_37 Start: 28390, Stop: 28968, Start Num: 3

Candidate Starts for Aeneas_37:

(Start: 3 @28390 has 12 MA's), (4, 28426), (7, 28468), (9, 28555), (10, 28582), (15, 28690), (16, 28696), (17, 28711), (25, 28810), (26, 28822), (29, 28885),

Gene: Bigchungji_35 Start: 28037, Stop: 28600, Start Num: 3

Candidate Starts for Bigchungji_35:

(Start: 3 @28037 has 12 MA's), (4, 28073), (7, 28115), (9, 28202), (10, 28229), (14, 28328), (16, 28343), (20, 28403),

Gene: Doom_36 Start: 28822, Stop: 29508, Start Num: 3

Candidate Starts for Doom_36:

(Start: 3 @28822 has 12 MA's), (4, 28858), (7, 28900), (9, 28987), (15, 29122), (16, 29128), (17, 29143), (25, 29242), (26, 29254), (29, 29317),

Gene: EnzoK_36 Start: 28242, Stop: 28937, Start Num: 3

Candidate Starts for EnzoK_36:

(Start: 3 @28242 has 12 MA's), (4, 28278), (7, 28320), (17, 28563), (27, 28689), (31, 28878), (32, 28911),

Gene: Enzomatic_26 Start: 24314, Stop: 25024, Start Num: 2

Candidate Starts for Enzomatic_26:

(1, 24254), (Start: 2 @24314 has 1 MA's), (5, 24362), (6, 24395), (8, 24428), (17, 24656),

Gene: Gwendoluna_37 Start: 29981, Stop: 30601, Start Num: 3

Candidate Starts for Gwendoluna_37:

(Start: 3 @29981 has 12 MA's), (4, 30017), (7, 30059), (9, 30146), (10, 30173), (15, 30281), (16, 30287), (17, 30302), (25, 30401), (26, 30413), (29, 30476),

Gene: KyMonks1A_37 Start: 28373, Stop: 28993, Start Num: 3

Candidate Starts for KyMonks1A_37:

(Start: 3 @28373 has 12 MA's), (4, 28409), (7, 28451), (9, 28538), (10, 28565), (15, 28673), (17, 28694), (25, 28793), (26, 28805), (29, 28868),

Gene: Mule_35 Start: 28097, Stop: 28600, Start Num: 3

Candidate Starts for Mule_35:

(Start: 3 @28097 has 12 MA's), (4, 28133), (7, 28175), (9, 28262), (10, 28289), (15, 28397), (16, 28403), (17, 28418), (28, 28562),

Gene: Mutaforma13_24 Start: 24312, Stop: 25115, Start Num: 2

Candidate Starts for Mutaforma13_24:

(1, 24252), (Start: 2 @24312 has 1 MA's), (5, 24360), (6, 24393), (8, 24426), (9, 24498), (10, 24525), (15, 24633), (16, 24639), (17, 24654), (25, 24753), (26, 24765), (29, 24828),

Gene: Niza_37 Start: 29141, Stop: 29761, Start Num: 3

Candidate Starts for Niza_37:

(Start: 3 @29141 has 12 MA's), (4, 29177), (7, 29219), (9, 29306), (10, 29333), (15, 29441), (16, 29447), (17, 29462), (25, 29561), (26, 29573), (29, 29636),

Gene: Petruccio_36 Start: 28445, Stop: 28990, Start Num: 3

Candidate Starts for Petruccio_36:

(Start: 3 @28445 has 12 MA's), (4, 28481), (7, 28523), (9, 28610), (10, 28637), (17, 28766), (19, 28787), (21, 28820), (23, 28856),

Gene: Polo2Bam_26 Start: 24314, Stop: 25024, Start Num: 2

Candidate Starts for Polo2Bam_26:

(1, 24254), (Start: 2 @24314 has 1 MA's), (5, 24362), (6, 24395), (8, 24428), (17, 24656),

Gene: Rubeus_36 Start: 28138, Stop: 28710, Start Num: 3

Candidate Starts for Rubeus_36:

(Start: 3 @28138 has 12 MA's), (4, 28174), (7, 28216), (10, 28330), (11, 28381), (12, 28396), (13, 28414), (22, 28525), (30, 28672),

Gene: Sagefire_36 Start: 28880, Stop: 29458, Start Num: 3

Candidate Starts for Sagefire_36:

(Start: 3 @28880 has 12 MA's), (4, 28916), (7, 28958), (9, 29045), (10, 29072), (15, 29180), (16, 29186), (17, 29201), (24, 29294), (25, 29300), (26, 29312), (29, 29375),

Gene: Sandaddy_34 Start: 27993, Stop: 28475, Start Num: 3

Candidate Starts for Sandaddy_34:

(Start: 3 @27993 has 12 MA's), (4, 28029), (7, 28071), (9, 28158), (10, 28185), (17, 28311), (18, 28329),

Gene: SeaLumen_25 Start: 24314, Stop: 25024, Start Num: 2

Candidate Starts for SeaLumen_25:

(1, 24254), (Start: 2 @24314 has 1 MA's), (5, 24362), (6, 24395), (8, 24428), (17, 24656),