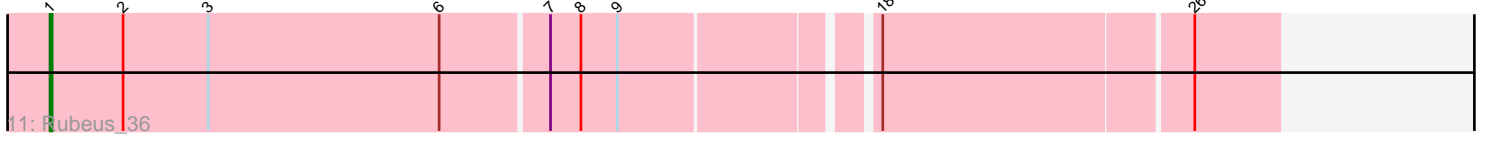
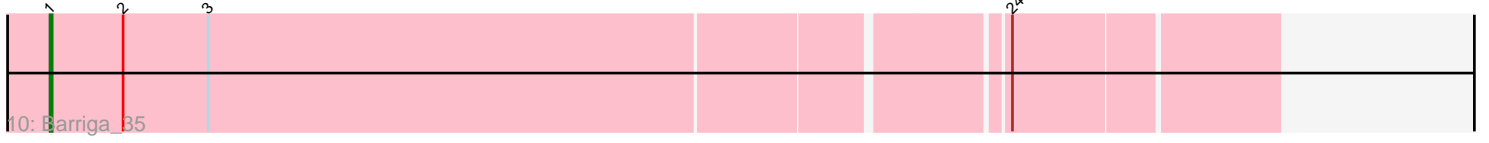
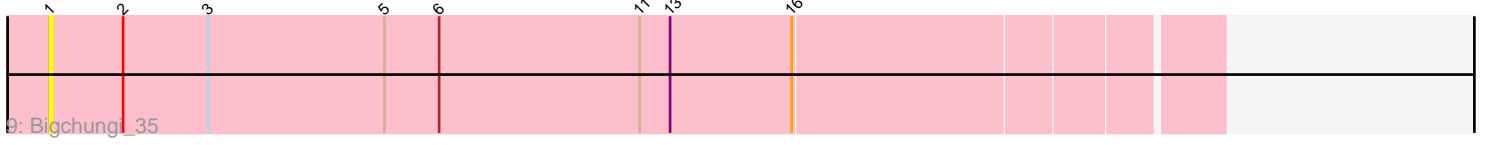
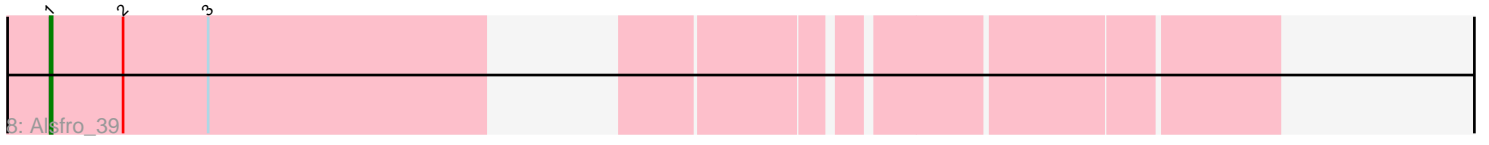
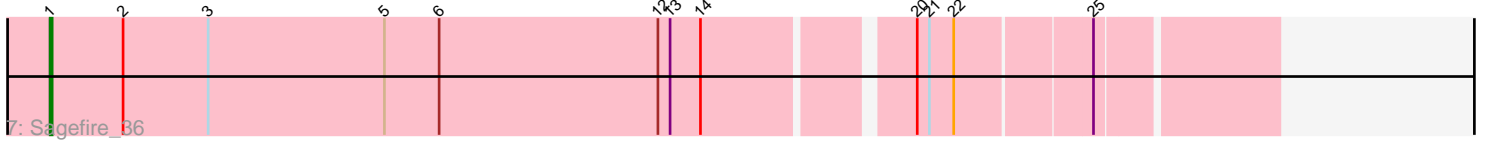
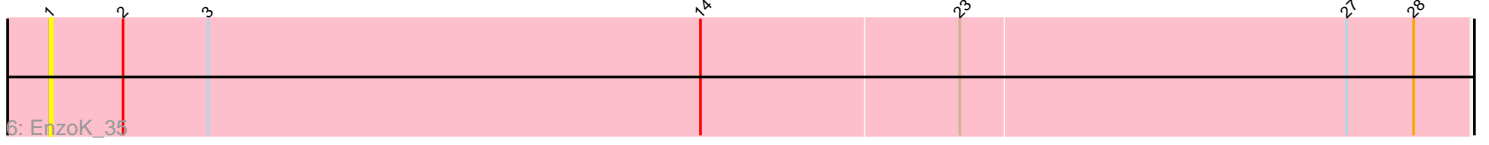
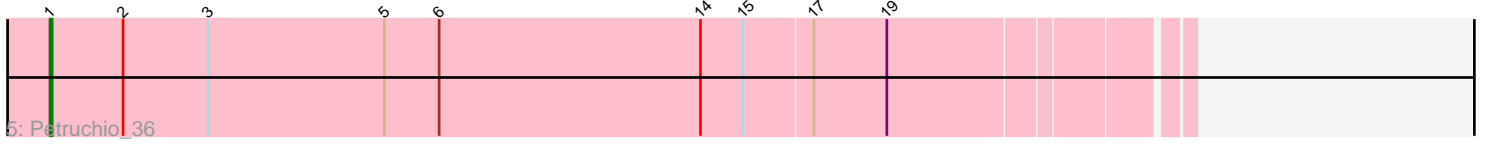
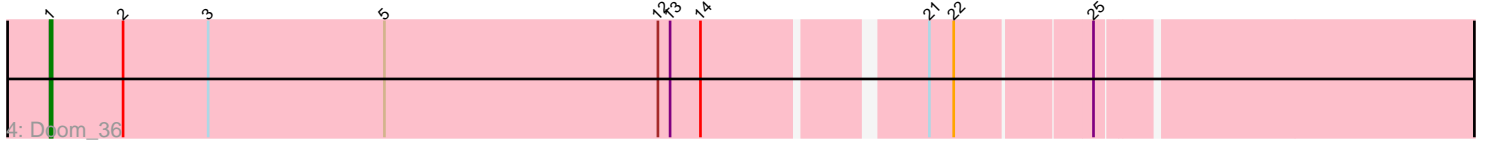
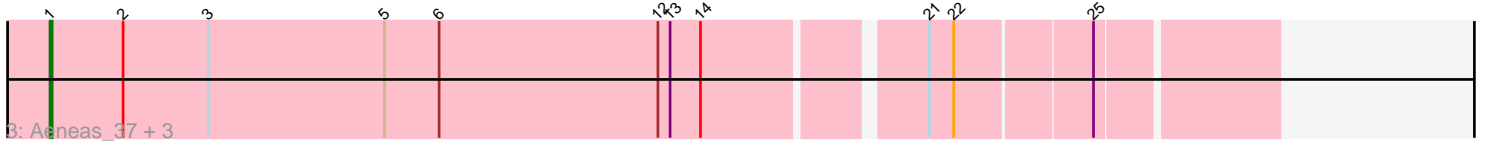
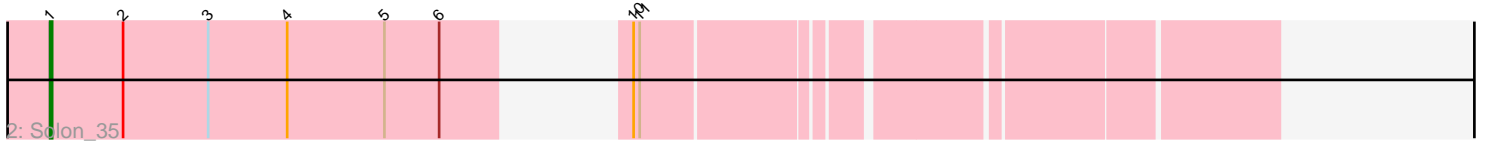
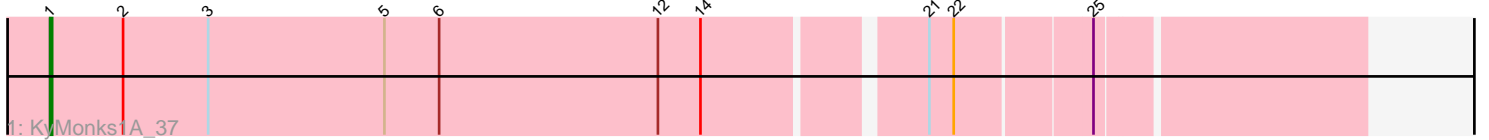


Pham 223551



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 223551 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223551 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : KyMonks1A_37
- Track 2 : Solon_35
- Track 3 : Aeneas_37, Gwendoluna_37, Niza_37, Acme_37
- Track 4 : Doom_36
- Track 5 : Petruccio_36
- Track 6 : EnzoK_35
- Track 7 : Sagefire_36
- Track 8 : Alsfo_39
- Track 9 : Bigchungji_35
- Track 10 : Barriga_35
- Track 11 : 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 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acme_37, Aeneas_37, Alsfo_39, Barriga_35, Bigchungji_35, Doom_36, EnzoK_35, Gwendoluna_37, KyMonks1A_37, Niza_37, Petruccio_36, Rubeus_36, Sagefire_36, Solon_35,

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 14 of 14 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Acme_37 (A1), Aeneas_37 (A1), Alsfro_39 (A1), Barriga_35 (A1), Bigchungi_35 (A1), Doom_36 (A1), EnzoK_35 (A1), Gwendoluna_37 (A1), KyMonks1A_37 (A1), Niza_37 (A1), Petruccio_36 (A1), Rubeus_36 (A1), Sagefire_36 (A1), Solon_35 (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 12 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 12 MA's), (2, 28390), (3, 28432), (5, 28519), (6, 28546), (12, 28654), (13, 28660), (14, 28675), (21, 28774), (22, 28786), (25, 28849),

Gene: Aeneas_37 Start: 28390, Stop: 28968, Start Num: 1

Candidate Starts for Aeneas_37:

(Start: 1 @28390 has 12 MA's), (2, 28426), (3, 28468), (5, 28555), (6, 28582), (12, 28690), (13, 28696), (14, 28711), (21, 28810), (22, 28822), (25, 28885),

Gene: Alsfro_39 Start: 28799, Stop: 29311, Start Num: 1

Candidate Starts for Alsfro_39:

(Start: 1 @28799 has 12 MA's), (2, 28835), (3, 28877),

Gene: Barriga_35 Start: 27886, Stop: 28467, Start Num: 1

Candidate Starts for Barriga_35:

(Start: 1 @27886 has 12 MA's), (2, 27922), (3, 27964), (24, 28342),

Gene: Bigchungi_35 Start: 28037, Stop: 28600, Start Num: 1

Candidate Starts for Bigchungi_35:

(Start: 1 @28037 has 12 MA's), (2, 28073), (3, 28115), (5, 28202), (6, 28229), (11, 28328), (13, 28343), (16, 28403),

Gene: Doom_36 Start: 28822, Stop: 29508, Start Num: 1

Candidate Starts for Doom_36:

(Start: 1 @28822 has 12 MA's), (2, 28858), (3, 28900), (5, 28987), (12, 29122), (13, 29128), (14, 29143), (21, 29242), (22, 29254), (25, 29317),

Gene: EnzoK_35 Start: 28242, Stop: 28937, Start Num: 1

Candidate Starts for EnzoK_35:

(Start: 1 @28242 has 12 MA's), (2, 28278), (3, 28320), (14, 28563), (23, 28689), (27, 28878), (28, 28911),

Gene: Gwendoluna_37 Start: 29981, Stop: 30601, Start Num: 1

Candidate Starts for Gwendoluna_37:

(Start: 1 @29981 has 12 MA's), (2, 30017), (3, 30059), (5, 30146), (6, 30173), (12, 30281), (13, 30287), (14, 30302), (21, 30401), (22, 30413), (25, 30476),

Gene: KyMonks1A_37 Start: 28373, Stop: 28993, Start Num: 1

Candidate Starts for KyMonks1A_37:

(Start: 1 @28373 has 12 MA's), (2, 28409), (3, 28451), (5, 28538), (6, 28565), (12, 28673), (14, 28694), (21, 28793), (22, 28805), (25, 28868),

Gene: Niza_37 Start: 29141, Stop: 29761, Start Num: 1

Candidate Starts for Niza_37:

(Start: 1 @29141 has 12 MA's), (2, 29177), (3, 29219), (5, 29306), (6, 29333), (12, 29441), (13, 29447), (14, 29462), (21, 29561), (22, 29573), (25, 29636),

Gene: Petruchio_36 Start: 28445, Stop: 28990, Start Num: 1

Candidate Starts for Petruchio_36:

(Start: 1 @28445 has 12 MA's), (2, 28481), (3, 28523), (5, 28610), (6, 28637), (14, 28766), (15, 28787), (17, 28820), (19, 28856),

Gene: Rubeus_36 Start: 28138, Stop: 28710, Start Num: 1

Candidate Starts for Rubeus_36:

(Start: 1 @28138 has 12 MA's), (2, 28174), (3, 28216), (6, 28330), (7, 28381), (8, 28396), (9, 28414), (18, 28525), (26, 28672),

Gene: Sagefire_36 Start: 28880, Stop: 29458, Start Num: 1

Candidate Starts for Sagefire_36:

(Start: 1 @28880 has 12 MA's), (2, 28916), (3, 28958), (5, 29045), (6, 29072), (12, 29180), (13, 29186), (14, 29201), (20, 29294), (21, 29300), (22, 29312), (25, 29375),

Gene: Solon_35 Start: 28646, Stop: 29161, Start Num: 1

Candidate Starts for Solon_35:

(Start: 1 @28646 has 12 MA's), (2, 28682), (3, 28724), (4, 28763), (5, 28811), (6, 28838), (10, 28874), (11, 28877),