Pham 4771

1: Synepsis_34 + 4

2: AreFloNak_35 + 1

3: Breylor17_36

4: Nightmare_36

5: ScienceWizSam_37

6: Teacup_38

7: Giantsbane_37

8: Makai_38 + 1
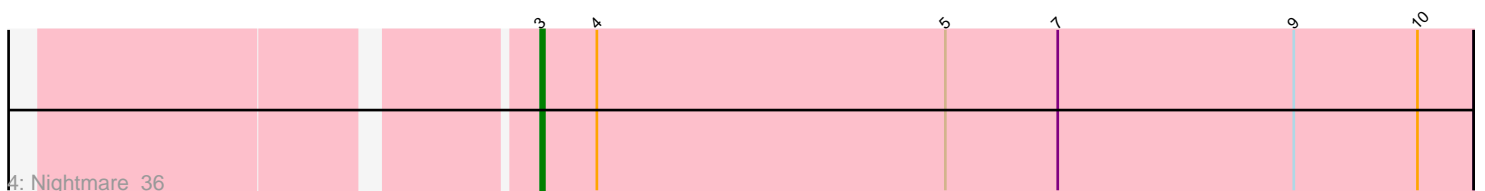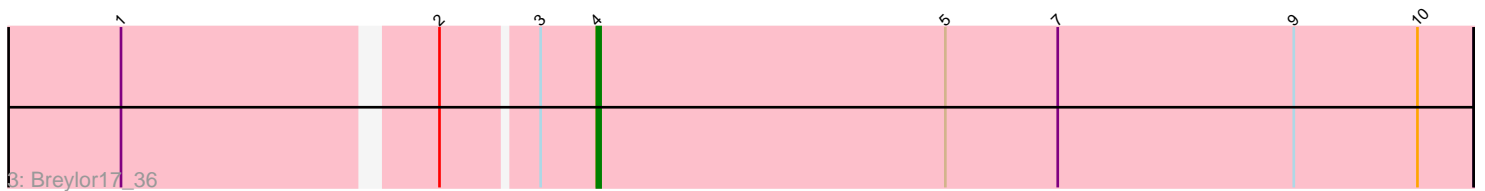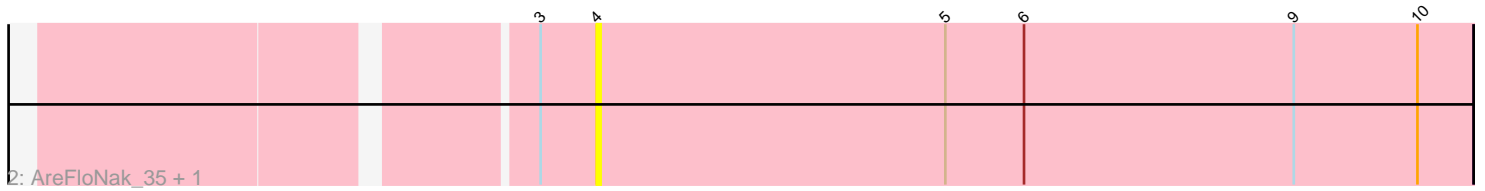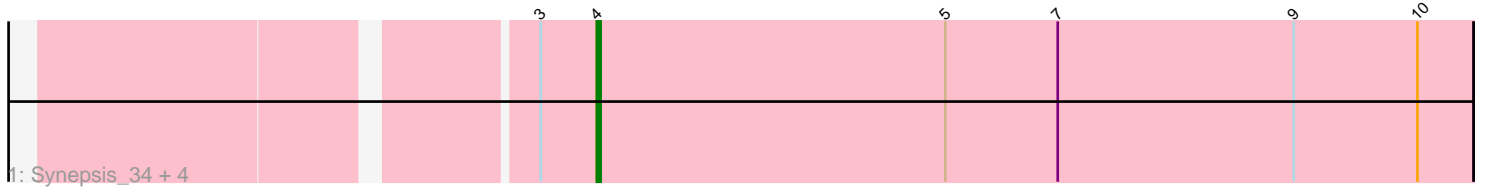
Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 4771 Report

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

Pham number 4771 has 14 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Synepsis_34, Issa_35, CastorTray_37, Trustiboi_36, DevitoJr_35
• Track 2 : AreFloNak_35, Nivinsha_35
• Track 3 : Breylor17_36
• Track 4 : Nightmare_36
• Track 5 : ScienceWizSam_37
• Track 6 : Teacup_38
• Track 7 : Giantsbane_37
• Track 8 : Makai_38, Truckee_37

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AreFloNak_35, Breylor17_36, CastorTray_37, DevitoJr_35, Giantsbane_37, Issa_35, Makai_38, Nivinsha_35, ScienceWizSam_37, Synepsis_34, Teacup_38, Truckee_37, Trustiboi_36,

Genes that have the "Most Annotated" start but do not call it:
• Nightmare_36,

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

Summary by start number:

Start 3:
• Found in 13 of 14 (92.9%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 7.7% of time when present
• Phage (with cluster) where this start called: Nightmare_36 (AU1),

Start 4:

• Found in 14 of 14 (100.0%) of genes in pham
• Manual Annotations of this start: 10 of 11
• Called 92.9% of time when present
• Phage (with cluster) where this start called: AreFloNak_35 (AU1), Breylor17_36 (AU1), CastorTray_37 (AU1), DevitoJr_35 (AU1), Giantsbane_37 (AU2), Issa_35 (AU1), Makai_38 (AU5), Nivinsha_35 (AU1), ScienceWizSam_37 (AU1), Synepsis_34 (AU1), Teacup_38 (AU1), Truckee_37 (AU5), Trustiboi_36 (AU1),

Summary by clusters:

There are 3 clusters represented in this pham: AU1, AU2, AU5,

Info for manual annotations of cluster AU1:
•Start number 3 was manually annotated 1 time for cluster AU1.
•Start number 4 was manually annotated 7 times for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 4 was manually annotated 1 time for cluster AU2.

Info for manual annotations of cluster AU5:
•Start number 4 was manually annotated 2 times for cluster AU5.

Gene Information:
Gene: AreFloNak_35 Start: 29345, Stop: 29578, Start Num: 4
Candidate Starts for AreFloNak_35:
(Start: 3 @29330 has 1 MA's), (Start: 4 @29345 has 10 MA's), (5, 29438), (6, 29459), (9, 29531), (10, 29564),

Gene: Breylor17_36 Start: 29952, Stop: 30185, Start Num: 4
Candidate Starts for Breylor17_36:
(1, 29835), (2, 29913), (Start: 3 @29937 has 1 MA's), (Start: 4 @29952 has 10 MA's), (5, 30045), (7, 30075), (9, 30138), (10, 30171),

Gene: CastorTray_37 Start: 29809, Stop: 30042, Start Num: 4
Candidate Starts for CastorTray_37:
(Start: 3 @29794 has 1 MA's), (Start: 4 @29809 has 10 MA's), (5, 29902), (7, 29932), (9, 29995), (10, 30028),

Gene: DevitoJr_35 Start: 29426, Stop: 29659, Start Num: 4
Candidate Starts for DevitoJr_35:
(Start: 3 @29411 has 1 MA's), (Start: 4 @29426 has 10 MA's), (5, 29519), (7, 29549), (9, 29612), (10, 29645),

Gene: Giantsbane_37 Start: 28458, Stop: 28688, Start Num: 4
Candidate Starts for Giantsbane_37:
(Start: 4 @28458 has 10 MA's), (9, 28644), (10, 28677),

Gene: Issa_35 Start: 29235, Stop: 29468, Start Num: 4
Candidate Starts for Issa_35:

(Start: 3 @29220 has 1 MA's), (Start: 4 @29235 has 10 MA's), (5, 29328), (7, 29358), (9, 29421), (10, 29454),

Gene: Makai_38 Start: 30426, Stop: 30659, Start Num: 4
Candidate Starts for Makai_38:
(Start: 3 @30411 has 1 MA's), (Start: 4 @30426 has 10 MA's), (9, 30612), (10, 30645),

Gene: Nightmare_36 Start: 29779, Stop: 30027, Start Num: 3
Candidate Starts for Nightmare_36:
(Start: 3 @29779 has 1 MA's), (Start: 4 @29794 has 10 MA's), (5, 29887), (7, 29917), (9, 29980), (10, 30013),

Gene: Nivinsha_35 Start: 29345, Stop: 29578, Start Num: 4
Candidate Starts for Nivinsha_35:
(Start: 3 @29330 has 1 MA's), (Start: 4 @29345 has 10 MA's), (5, 29438), (6, 29459), (9, 29531), (10, 29564),

Gene: ScienceWizSam_37 Start: 29746, Stop: 29979, Start Num: 4
Candidate Starts for ScienceWizSam_37:
(2, 29707), (Start: 3 @29731 has 1 MA's), (Start: 4 @29746 has 10 MA's), (5, 29839), (7, 29869), (9, 29932), (10, 29965),

Gene: Synepsis_34 Start: 29409, Stop: 29642, Start Num: 4
Candidate Starts for Synepsis_34:
(Start: 3 @29394 has 1 MA's), (Start: 4 @29409 has 10 MA's), (5, 29502), (7, 29532), (9, 29595), (10, 29628),

Gene: Teacup_38 Start: 30249, Stop: 30482, Start Num: 4
Candidate Starts for Teacup_38:
(Start: 3 @30234 has 1 MA's), (Start: 4 @30249 has 10 MA's), (7, 30372), (8, 30417), (9, 30435), (10, 30468),

Gene: Truckee_37 Start: 30476, Stop: 30709, Start Num: 4
Candidate Starts for Truckee_37:
(Start: 3 @30461 has 1 MA's), (Start: 4 @30476 has 10 MA's), (9, 30662), (10, 30695),

Gene: Trustiboi_36 Start: 29962, Stop: 30195, Start Num: 4
Candidate Starts for Trustiboi_36:
(Start: 3 @29947 has 1 MA's), (Start: 4 @29962 has 10 MA's), (5, 30055), (7, 30085), (9, 30148), (10, 30181),