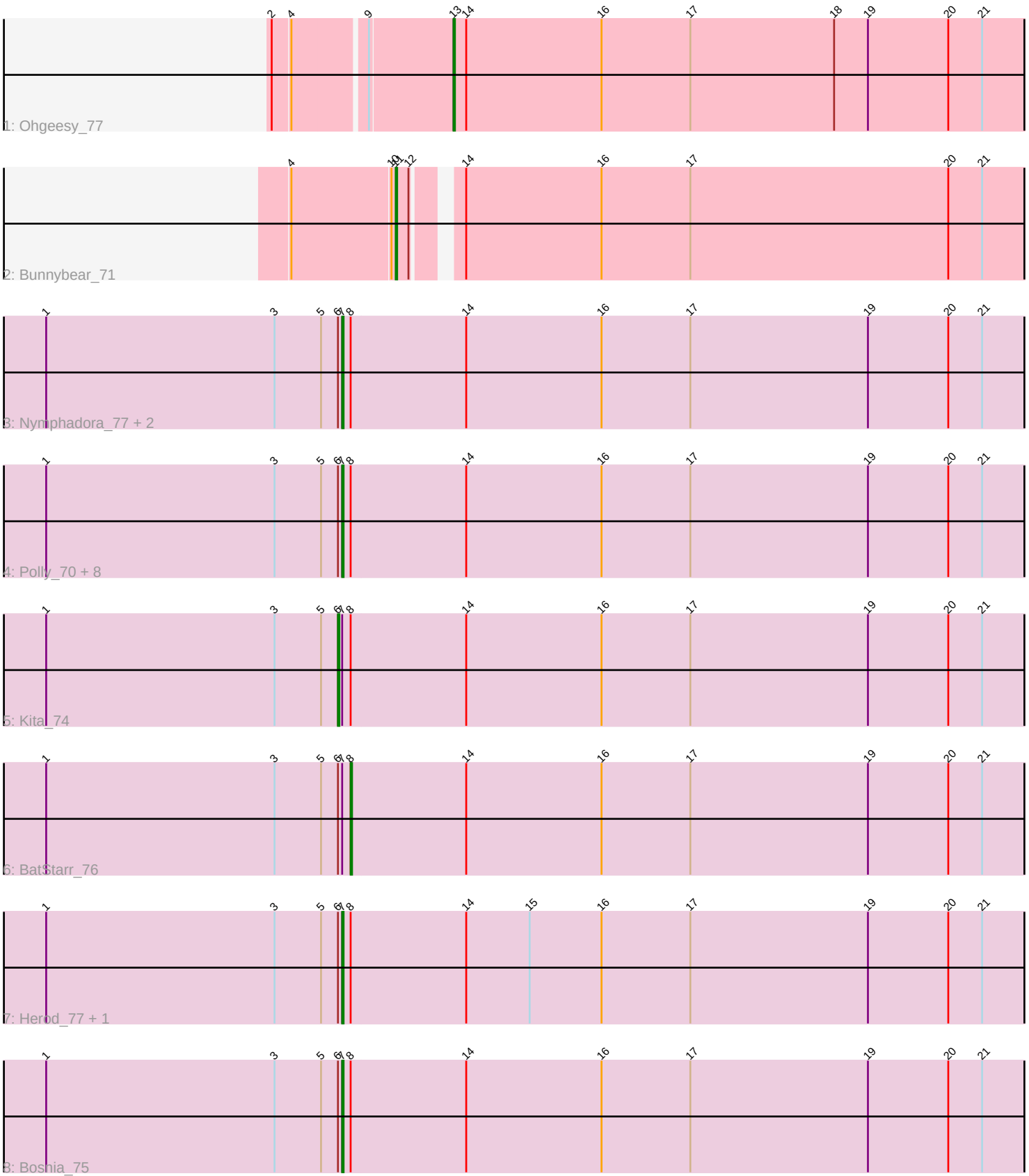
Pham 3986


1: Ohgeesy_77
2: Bunnybear_71
3: Nymphadora_77 + 2
4: Polly_70 + 8
5: Kita_74
6: BatStarr_76
7: Herod_77 + 1
8: Bosnia_75

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 3986 Report

This analysis was run 04/12/24 on database version 558.

Pham number 3986 has 19 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Ohgeesy_77
• Track 2 : Bunnybear_71
• Track 3 : Nymphadora_77, TimTam_77, Eviarto_77
• Track 4 : Polly_70, Manasvini_75, Trumpet_73, Neobush_75, Suscepit_73, Antonio_72, Eudoria_73, Tayonia_73, Zameen_73
• Track 5 : Kita_74
• Track 6 : BatStarr_76
• Track 7 : Herod_77, Hugley_75
• Track 8 : Bosnia_75

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

The start number called the most often in the published annotations is 7, it was called in 14 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Antonio_72, Bosnia_75, Eudoria_73, Eviarto_77, Herod_77, Hugley_75, Manasvini_75, Neobush_75, Nymphadora_77, Polly_70, Suscepit_73, Tayonia_73, TimTam_77, Trumpet_73, Zameen_73,

Genes that have the "Most Annotated" start but do not call it:
• BatStarr_76, Kita_74,

Genes that do not have the "Most Annotated" start:
• Bunnybear_71, Ohgeesy_77,

Summary by start number:

Start 6:
• Found in 17 of 19 (89.5%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Kita_74 (CZ1),

Start 7:
• Found in 17 of 19 (89.5%) of genes in pham
• Manual Annotations of this start: 14 of 18
• Called 88.2% of time when present
• Phage (with cluster) where this start called: Antonio_72 (CZ1), Bosnia_75 (CZ1), Eudoria_73 (CZ1), Eviarto_77 (CZ1), Herod_77 (CZ1), Hugley_75 (CZ1), Manasvini_75 (CZ1), Neobush_75 (CZ1), Nymphadora_77 (CZ1), Polly_70 (CZ1), Suscepit_73 (CZ1), Tayonia_73 (CZ1), TimTam_77 (CZ1), Trumpet_73 (CZ1), Zameen_73 (CZ1),

Start 8:
• Found in 17 of 19 (89.5%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 5.9% of time when present
• Phage (with cluster) where this start called: BatStarr_76 (CZ1),

Start 11:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bunnybear_71 (CZ),

Start 13:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ohgeesy_77 (CZ),

Summary by clusters:

There are 2 clusters represented in this pham: CZ, CZ1,

Info for manual annotations of cluster CZ:
•Start number 11 was manually annotated 1 time for cluster CZ.
•Start number 13 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 6 was manually annotated 1 time for cluster CZ1.
•Start number 7 was manually annotated 14 times for cluster CZ1.
•Start number 8 was manually annotated 1 time for cluster CZ1.

Gene Information:

Gene: Antonio_72 Start: 47419, Stop: 47949, Start Num: 7
Candidate Starts for Antonio_72:
(1, 47209), (3, 47371), (5, 47404), (Start: 6 @47416 has 1 MA's), (Start: 7 @47419 has 14 MA's), (Start: 8 @47425 has 1 MA's), (14, 47506), (16, 47602), (17, 47665), (19, 47791), (20, 47848), (21, 47872),

Gene: BatStarr_76 Start: 50393, Stop: 50917, Start Num: 8
Candidate Starts for BatStarr_76:

(1, 50177), (3, 50339), (5, 50372), (Start: 6 @50384 has 1 MA's), (Start: 7 @50387 has 14 MA's), (Start: 8 @50393 has 1 MA's), (14, 50474), (16, 50570), (17, 50633), (19, 50759), (20, 50816), (21, 50840),

Gene: Bosnia_75 Start: 51501, Stop: 52031, Start Num: 7
Candidate Starts for Bosnia_75:
(1, 51291), (3, 51453), (5, 51486), (Start: 6 @51498 has 1 MA's), (Start: 7 @51501 has 14 MA's), (Start: 8 @51507 has 1 MA's), (14, 51588), (16, 51684), (17, 51747), (19, 51873), (20, 51930), (21, 51954),

Gene: Bunnybear_71 Start: 48442, Stop: 48918, Start Num: 11
Candidate Starts for Bunnybear_71:
(4, 48370), (10, 48439), (Start: 11 @48442 has 1 MA's), (12, 48451), (14, 48475), (16, 48571), (17, 48634), (20, 48817), (21, 48841),

Gene: Eudoria_73 Start: 47419, Stop: 47949, Start Num: 7
Candidate Starts for Eudoria_73:
(1, 47209), (3, 47371), (5, 47404), (Start: 6 @47416 has 1 MA's), (Start: 7 @47419 has 14 MA's), (Start: 8 @47425 has 1 MA's), (14, 47506), (16, 47602), (17, 47665), (19, 47791), (20, 47848), (21, 47872),

Gene: Eviarto_77 Start: 50362, Stop: 50892, Start Num: 7
Candidate Starts for Eviarto_77:
(1, 50152), (3, 50314), (5, 50347), (Start: 6 @50359 has 1 MA's), (Start: 7 @50362 has 14 MA's), (Start: 8 @50368 has 1 MA's), (14, 50449), (16, 50545), (17, 50608), (19, 50734), (20, 50791), (21, 50815),

Gene: Herod_77 Start: 50781, Stop: 51311, Start Num: 7
Candidate Starts for Herod_77:
(1, 50571), (3, 50733), (5, 50766), (Start: 6 @50778 has 1 MA's), (Start: 7 @50781 has 14 MA's), (Start: 8 @50787 has 1 MA's), (14, 50868), (15, 50913), (16, 50964), (17, 51027), (19, 51153), (20, 51210), (21, 51234),

Gene: Hugley_75 Start: 50761, Stop: 51291, Start Num: 7
Candidate Starts for Hugley_75:
(1, 50551), (3, 50713), (5, 50746), (Start: 6 @50758 has 1 MA's), (Start: 7 @50761 has 14 MA's), (Start: 8 @50767 has 1 MA's), (14, 50848), (15, 50893), (16, 50944), (17, 51007), (19, 51133), (20, 51190), (21, 51214),

Gene: Kita_74 Start: 47425, Stop: 47958, Start Num: 6
Candidate Starts for Kita_74:
(1, 47218), (3, 47380), (5, 47413), (Start: 6 @47425 has 1 MA's), (Start: 7 @47428 has 14 MA's), (Start: 8 @47434 has 1 MA's), (14, 47515), (16, 47611), (17, 47674), (19, 47800), (20, 47857), (21, 47881),

Gene: Manasvini_75 Start: 47443, Stop: 47973, Start Num: 7
Candidate Starts for Manasvini_75:
(1, 47233), (3, 47395), (5, 47428), (Start: 6 @47440 has 1 MA's), (Start: 7 @47443 has 14 MA's), (Start: 8 @47449 has 1 MA's), (14, 47530), (16, 47626), (17, 47689), (19, 47815), (20, 47872), (21, 47896),

Gene: Neobush_75 Start: 47987, Stop: 48517, Start Num: 7
Candidate Starts for Neobush_75:

(1, 47777), (3, 47939), (5, 47972), (Start: 6 @47984 has 1 MA's), (Start: 7 @47987 has 14 MA's), (Start: 8 @47993 has 1 MA's), (14, 48074), (16, 48170), (17, 48233), (19, 48359), (20, 48416), (21, 48440),

Gene: Nymphadora_77 Start: 50386, Stop: 50916, Start Num: 7
Candidate Starts for Nymphadora_77:
(1, 50176), (3, 50338), (5, 50371), (Start: 6 @50383 has 1 MA's), (Start: 7 @50386 has 14 MA's), (Start: 8 @50392 has 1 MA's), (14, 50473), (16, 50569), (17, 50632), (19, 50758), (20, 50815), (21, 50839),

Gene: Ohgeesy_77 Start: 50006, Stop: 50458, Start Num: 13
Candidate Starts for Ohgeesy_77:
(2, 49901), (4, 49913), (9, 49961), (Start: 13 @50006 has 1 MA's), (14, 50015), (16, 50111), (17, 50174), (18, 50276), (19, 50300), (20, 50357), (21, 50381),

Gene: Polly_70 Start: 46862, Stop: 47392, Start Num: 7
Candidate Starts for Polly_70:
(1, 46652), (3, 46814), (5, 46847), (Start: 6 @46859 has 1 MA's), (Start: 7 @46862 has 14 MA's), (Start: 8 @46868 has 1 MA's), (14, 46949), (16, 47045), (17, 47108), (19, 47234), (20, 47291), (21, 47315),

Gene: Suscepit_73 Start: 47420, Stop: 47950, Start Num: 7
Candidate Starts for Suscepit_73:
(1, 47210), (3, 47372), (5, 47405), (Start: 6 @47417 has 1 MA's), (Start: 7 @47420 has 14 MA's), (Start: 8 @47426 has 1 MA's), (14, 47507), (16, 47603), (17, 47666), (19, 47792), (20, 47849), (21, 47873),

Gene: Tayonia_73 Start: 47419, Stop: 47949, Start Num: 7
Candidate Starts for Tayonia_73:
(1, 47209), (3, 47371), (5, 47404), (Start: 6 @47416 has 1 MA's), (Start: 7 @47419 has 14 MA's), (Start: 8 @47425 has 1 MA's), (14, 47506), (16, 47602), (17, 47665), (19, 47791), (20, 47848), (21, 47872),

Gene: TimTam_77 Start: 50386, Stop: 50916, Start Num: 7
Candidate Starts for TimTam_77:
(1, 50176), (3, 50338), (5, 50371), (Start: 6 @50383 has 1 MA's), (Start: 7 @50386 has 14 MA's), (Start: 8 @50392 has 1 MA's), (14, 50473), (16, 50569), (17, 50632), (19, 50758), (20, 50815), (21, 50839),

Gene: Trumpet_73 Start: 47420, Stop: 47950, Start Num: 7
Candidate Starts for Trumpet_73:
(1, 47210), (3, 47372), (5, 47405), (Start: 6 @47417 has 1 MA's), (Start: 7 @47420 has 14 MA's), (Start: 8 @47426 has 1 MA's), (14, 47507), (16, 47603), (17, 47666), (19, 47792), (20, 47849), (21, 47873),

Gene: Zameen_73 Start: 47419, Stop: 47949, Start Num: 7
Candidate Starts for Zameen_73:
(1, 47209), (3, 47371), (5, 47404), (Start: 6 @47416 has 1 MA's), (Start: 7 @47419 has 14 MA's), (Start: 8 @47425 has 1 MA's), (14, 47506), (16, 47602), (17, 47665), (19, 47791), (20, 47848), (21, 47872),