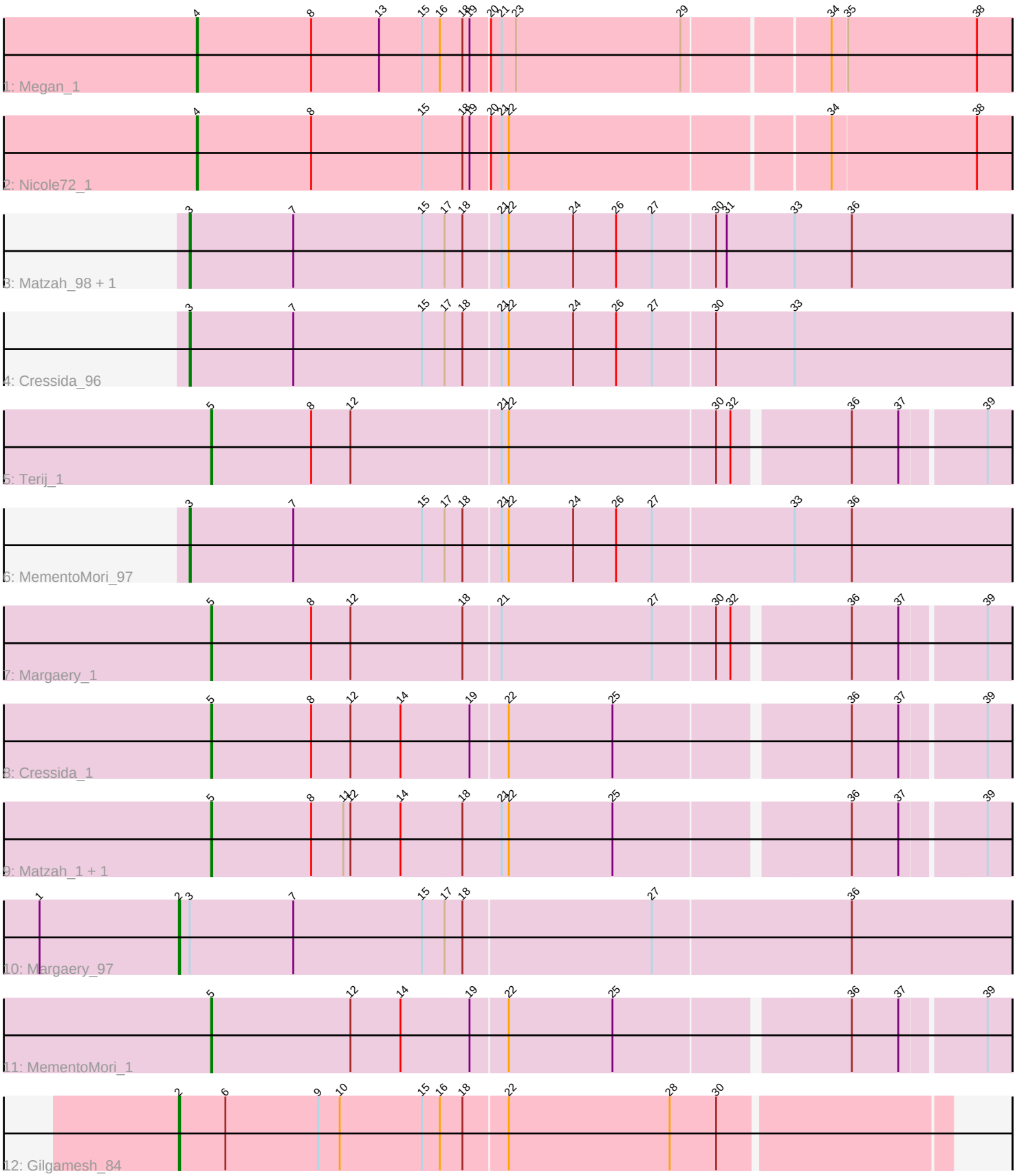
Pham 346287


1: Megan_1
2: Nicole72_1
3: Matzah_98 + 1
4: Cressida_96
5: Terij_1
6: MementoMori_97
7: Margaery_1
8: Cressida_1
9: Matzah_1 + 1
10: Margaery_97
11: MementoMori_1
12: Gilgamesh_84

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 346287 Report

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

Pham number 346287 has 14 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Megan_1
• Track 2 : Nicole72_1
• Track 3 : Matzah_98, Cinna_94
• Track 4 : Cressida_96
• Track 5 : Terij_1
• Track 6 : MementoMori_97
• Track 7 : Margaery_1
• Track 8 : Cressida_1
• Track 9 : Matzah_1, Cinna_1
• Track 10 : Margaery_97
• Track 11 : MementoMori_1
• Track 12 : Gilgamesh_84

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

The start number called the most often in the published annotations is 5, it was called in 6 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cinna_1, Cressida_1, Margaery_1, Matzah_1, MementoMori_1, Terij_1,

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

Genes that do not have the "Most Annotated" start:
• Cinna_94, Cressida_96, Gilgamesh_84, Margaery_97, Matzah_98, Megan_1, MementoMori_97, Nicole72_1,

Summary by start number:

Start 2:
• Found in 2 of 14 (14.3%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Gilgamesh_84 (singleton), Margaery_97 (EI),

Start 3:
• Found in 5 of 14 (35.7%) of genes in pham
• Manual Annotations of this start: 4 of 14
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Cinna_94 (EI), Cressida_96 (EI), Matzah_98 (EI), MementoMori_97 (EI),

Start 4:
• Found in 2 of 14 (14.3%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Megan_1 (EC), Nicole72_1 (EC),

Start 5:
• Found in 6 of 14 (42.9%) of genes in pham
• Manual Annotations of this start: 6 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cinna_1 (EI), Cressida_1 (EI), Margaery_1 (EI), Matzah_1 (EI), MementoMori_1 (EI), Terij_1 (EI),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, EI, EC,

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

Info for manual annotations of cluster EI:
•Start number 2 was manually annotated 1 time for cluster EI.
•Start number 3 was manually annotated 4 times for cluster EI.
•Start number 5 was manually annotated 6 times for cluster EI.

Gene Information:

Gene: Cinna_94 Start: 54580, Stop: 55263, Start Num: 3
Candidate Starts for Cinna_94:
(Start: 3 @54580 has 4 MA's), (7, 54667), (15, 54775), (17, 54793), (18, 54808), (21, 54838), (22, 54844), (24, 54898), (26, 54934), (27, 54964), (30, 55015), (31, 55024), (33, 55081), (36, 55129),

Gene: Cinna_1 Start: 1, Stop: 648, Start Num: 5
Candidate Starts for Cinna_1:
(Start: 5 @1 has 6 MA's), (8, 85), (11, 112), (12, 118), (14, 160), (18, 211), (21, 244), (22, 250), (25, 337), (36, 523), (37, 562), (39, 628),

Gene: Cressida_96 Start: 55174, Stop: 55857, Start Num: 3
Candidate Starts for Cressida_96:
(Start: 3 @55174 has 4 MA's), (7, 55261), (15, 55369), (17, 55387), (18, 55402), (21, 55432), (22, 55438), (24, 55492), (26, 55528), (27, 55558), (30, 55609), (33, 55675),

Gene: Cressida_1 Start: 1, Stop: 645, Start Num: 5
Candidate Starts for Cressida_1:
(Start: 5 @1 has 6 MA's), (8, 85), (12, 118), (14, 160), (19, 217), (22, 247), (25, 334), (36, 520), (37, 559), (39, 625),

Gene: Gilgamesh_84 Start: 79987, Stop: 80619, Start Num: 2
Candidate Starts for Gilgamesh_84:
(Start: 2 @79987 has 2 MA's), (6, 80026), (9, 80104), (10, 80122), (15, 80191), (16, 80206), (18, 80224), (22, 80260), (28, 80395), (30, 80434),

Gene: Margaery_1 Start: 1, Stop: 645, Start Num: 5
Candidate Starts for Margaery_1:
(Start: 5 @1 has 6 MA's), (8, 85), (12, 118), (18, 211), (21, 241), (27, 367), (30, 418), (32, 430), (36, 520), (37, 559), (39, 625),

Gene: Margaery_97 Start: 55238, Stop: 55930, Start Num: 2
Candidate Starts for Margaery_97:
(1, 55121), (Start: 2 @55238 has 2 MA's), (Start: 3 @55247 has 4 MA's), (7, 55334), (15, 55442), (17, 55460), (18, 55475), (27, 55631), (36, 55796),

Gene: Matzah_98 Start: 54900, Stop: 55583, Start Num: 3
Candidate Starts for Matzah_98:
(Start: 3 @54900 has 4 MA's), (7, 54987), (15, 55095), (17, 55113), (18, 55128), (21, 55158), (22, 55164), (24, 55218), (26, 55254), (27, 55284), (30, 55335), (31, 55344), (33, 55401), (36, 55449),

Gene: Matzah_1 Start: 1, Stop: 648, Start Num: 5
Candidate Starts for Matzah_1:
(Start: 5 @1 has 6 MA's), (8, 85), (11, 112), (12, 118), (14, 160), (18, 211), (21, 244), (22, 250), (25, 337), (36, 523), (37, 562), (39, 628),

Gene: Megan_1 Start: 1, Stop: 666, Start Num: 4
Candidate Starts for Megan_1:
(Start: 4 @1 has 2 MA's), (8, 97), (13, 154), (15, 190), (16, 205), (18, 223), (19, 229), (20, 244), (21, 253), (23, 265), (29, 403), (34, 517), (35, 529), (38, 637),

Gene: MementoMori_97 Start: 54789, Stop: 55472, Start Num: 3
Candidate Starts for MementoMori_97:
(Start: 3 @54789 has 4 MA's), (7, 54876), (15, 54984), (17, 55002), (18, 55017), (21, 55047), (22, 55053), (24, 55107), (26, 55143), (27, 55173), (33, 55290), (36, 55338),

Gene: MementoMori_1 Start: 1, Stop: 645, Start Num: 5
Candidate Starts for MementoMori_1:
(Start: 5 @1 has 6 MA's), (12, 118), (14, 160), (19, 217), (22, 247), (25, 334), (36, 520), (37, 559), (39, 625),

Gene: Nicole72_1 Start: 1, Stop: 666, Start Num: 4
Candidate Starts for Nicole72_1:
(Start: 4 @1 has 2 MA's), (8, 97), (15, 190), (18, 223), (19, 229), (20, 244), (21, 253), (22, 259), (34, 517), (38, 637),

Gene: Terij_1 Start: 1, Stop: 645, Start Num: 5
Candidate Starts for Terij_1:

(Start: 5 @1 has 6 MA's), (8, 85), (12, 118), (21, 241), (22, 247), (30, 418), (32, 430), (36, 520), (37, 559), (39, 625),