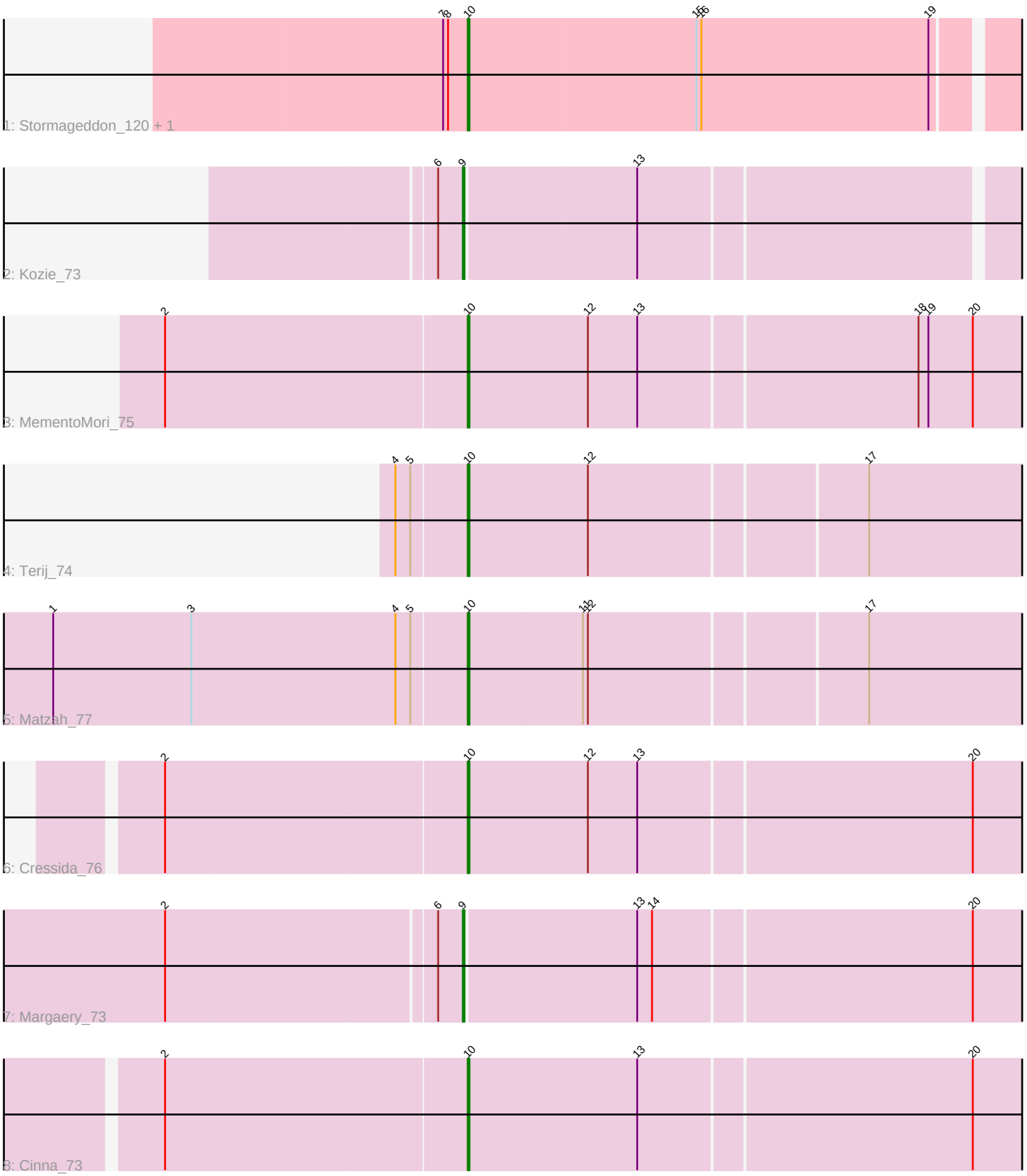
# Pham 346441


7
8
10
15
16
19
1: Stormageddon_120 + 1
6
9
13
2: Kozie_73
2
10
12
13
18
19
20
3: MementoMori_75
4
5
10
12
17
4: Terij_74
1
3
4
5
10
11
12
17
5: Matzah_77
2
10
12
13
20
6: Cressida_76
2
6
9
13
14
20
7: Margaery_73
2
10
13
20
8: Cinna_73

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 346441 Report

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

Pham number 346441 has 9 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Stormageddon_120, RedWattleHog_121
• Track 2 : Kozie_73
• Track 3 : MementoMori_75
• Track 4 : Terij_74
• Track 5 : Matzah_77
• Track 6 : Cressida_76
• Track 7 : Margaery_73
• Track 8 : Cinna_73

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

The start number called the most often in the published annotations is 10, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cinna_73, Cressida_76, Matzah_77, MementoMori_75, RedWattleHog_121, Stormageddon_120, Terij_74,

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

Genes that do not have the "Most Annotated" start:
• Kozie_73, Margaery_73,

**Summary by start number:**

Start 9:
• Found in 2 of 9 ( 22.2% ) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kozie_73 (EI), Margaery_73 (EI),

Start 10:
• Found in 7 of 9 ( 77.8% ) of genes in pham

• Manual Annotations of this start: 7 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cinna_73 (EI), Cressida_76 (EI), Matzah_77 (EI), MementoMori_75 (EI), RedWattleHog_121 (DX), Stormageddon_120 (DX), Terij_74 (EI),

**Summary by clusters:**

There are 2 clusters represented in this pham: EI, DX,

Info for manual annotations of cluster DX:
•Start number 10 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster EI:
•Start number 9 was manually annotated 2 times for cluster EI.
•Start number 10 was manually annotated 5 times for cluster EI.

***Gene Information:***

Gene: Cinna_73 Start: 46580, Stop: 46939, Start Num: 10
Candidate Starts for Cinna_73:
(2, 46400), (Start: 10 @46580 has 7 MA's), (13, 46682), (20, 46880),

Gene: Cressida_76 Start: 46195, Stop: 46563, Start Num: 10
Candidate Starts for Cressida_76:
(2, 46015), (Start: 10 @46195 has 7 MA's), (12, 46267), (13, 46297), (20, 46495),

Gene: Kozie_73 Start: 45915, Stop: 46274, Start Num: 9
Candidate Starts for Kozie_73:
(6, 45900), (Start: 9 @45915 has 2 MA's), (13, 46017),

Gene: Margaery_73 Start: 46109, Stop: 46480, Start Num: 9
Candidate Starts for Margaery_73:
(2, 45935), (6, 46094), (Start: 9 @46109 has 2 MA's), (13, 46211), (14, 46220), (20, 46409),

Gene: Matzah_77 Start: 47203, Stop: 47565, Start Num: 10
Candidate Starts for Matzah_77:
(1, 46954), (3, 47038), (4, 47161), (5, 47170), (Start: 10 @47203 has 7 MA's), (11, 47272), (12, 47275), (17, 47437),

Gene: MementoMori_75 Start: 46535, Stop: 46903, Start Num: 10
Candidate Starts for MementoMori_75:
(2, 46355), (Start: 10 @46535 has 7 MA's), (12, 46607), (13, 46637), (18, 46802), (19, 46808), (20, 46835),

Gene: RedWattleHog_121 Start: 91759, Stop: 92091, Start Num: 10
Candidate Starts for RedWattleHog_121:
(7, 91744), (8, 91747), (Start: 10 @91759 has 7 MA's), (15, 91897), (16, 91900), (19, 92038),

Gene: Stormageddon_120 Start: 91693, Stop: 92025, Start Num: 10
Candidate Starts for Stormageddon_120:

(7, 91678), (8, 91681), (Start: 10 @91693 has 7 MA's), (15, 91831), (16, 91834), (19, 91972),

Gene: Terij_74 Start: 45469, Stop: 45837, Start Num: 10
Candidate Starts for Terij_74:
(4, 45427), (5, 45436), (Start: 10 @45469 has 7 MA's), (12, 45541), (17, 45703),