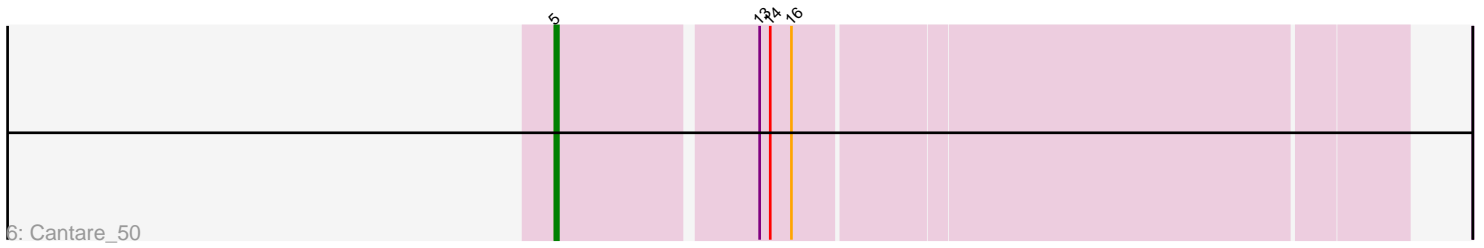
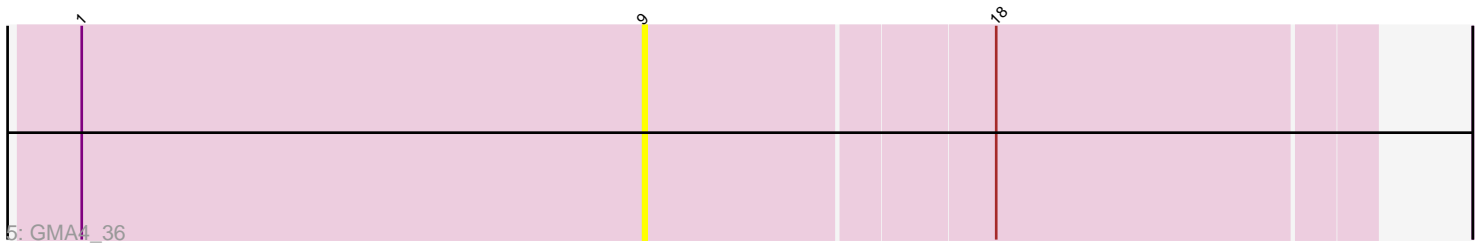
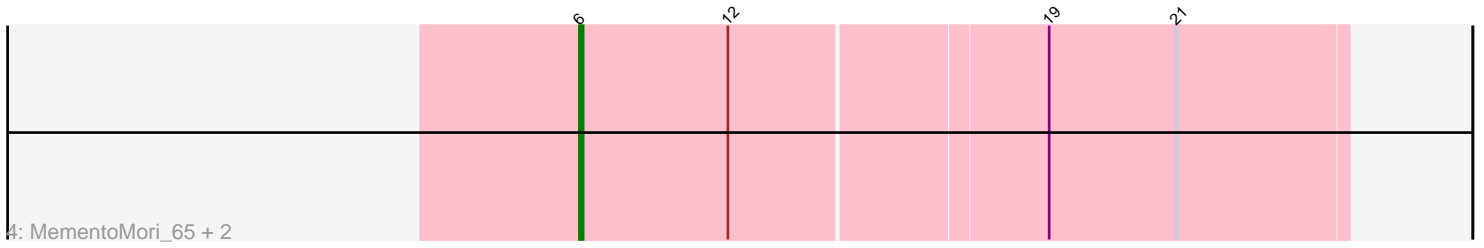
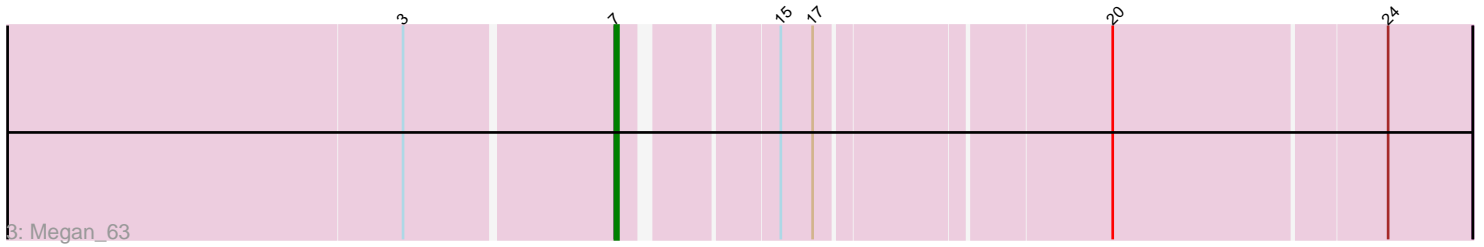
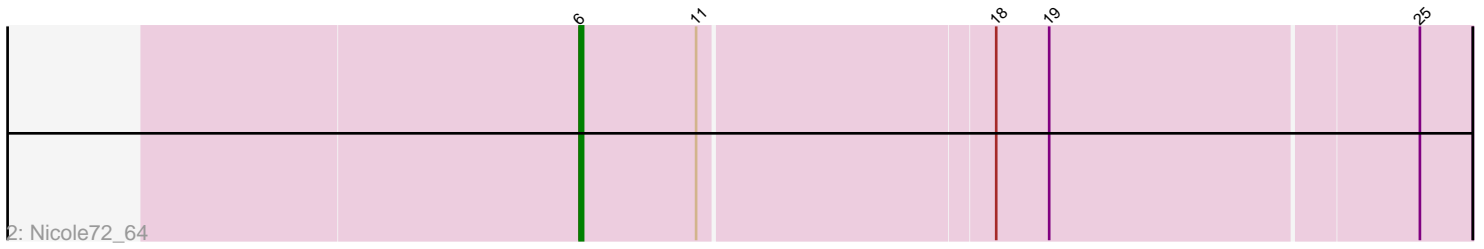
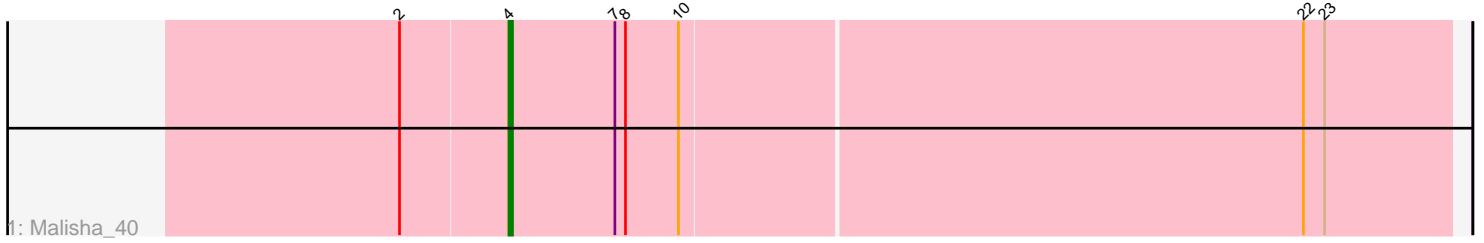


Pham 297307



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 297307 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297307 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Malisha_40
- Track 2 : Nicole72_64
- Track 3 : Megan_63
- Track 4 : MementoMori_65, Matzah_66, Cinna_64
- Track 5 : GMA4_36
- Track 6 : Cantare_50

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

The start number called the most often in the published annotations is 6, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cinna_64, Matzah_66, MementoMori_65, Nicole72_64,

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

-

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

- Cantare_50, GMA4_36, Malisha_40, Megan_63,

Summary by start number:

Start 4:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Malisha_40 (DN),

Start 5:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cantare_50 (singleton),

Start 6:

- Found in 4 of 8 (50.0%) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna_64 (EI), Matzah_66 (EI), MementoMori_65 (EI), Nicole72_64 (EC),

Start 7:

- Found in 2 of 8 (25.0%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Megan_63 (EC),

Start 9:

- Found in 1 of 8 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_36 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: DN, singleton, EI, EC,

Info for manual annotations of cluster DN:

- Start number 4 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster EC:

- Start number 6 was manually annotated 1 time for cluster EC.
- Start number 7 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EI:

- Start number 6 was manually annotated 3 times for cluster EI.

Gene Information:

Gene: Cantare_50 Start: 45879, Stop: 46109, Start Num: 5

Candidate Starts for Cantare_50:

(Start: 5 @45879 has 1 MA's), (13, 45933), (14, 45936), (16, 45942),

Gene: Cinna_64 Start: 43061, Stop: 43273, Start Num: 6

Candidate Starts for Cinna_64:

(Start: 6 @43061 has 4 MA's), (12, 43103), (19, 43190), (21, 43226),

Gene: GMA4_36 Start: 29103, Stop: 29303, Start Num: 9

Candidate Starts for GMA4_36:

(1, 28944), (9, 29103), (18, 29199),

Gene: Malisha_40 Start: 30125, Stop: 29862, Start Num: 4

Candidate Starts for Malisha_40:

(2, 30155), (Start: 4 @30125 has 1 MA's), (Start: 7 @30095 has 1 MA's), (8, 30092), (10, 30077), (22, 29903), (23, 29897),

Gene: Matzah_66 Start: 43128, Stop: 43340, Start Num: 6

Candidate Starts for Matzah_66:

(Start: 6 @43128 has 4 MA's), (12, 43170), (19, 43257), (21, 43293),

Gene: Megan_63 Start: 45613, Stop: 45837, Start Num: 7

Candidate Starts for Megan_63:

(3, 45556), (Start: 7 @45613 has 1 MA's), (15, 45652), (17, 45661), (20, 45739), (24, 45814),

Gene: MementoMori_65 Start: 42723, Stop: 42935, Start Num: 6

Candidate Starts for MementoMori_65:

(Start: 6 @42723 has 4 MA's), (12, 42765), (19, 42852), (21, 42888),

Gene: Nicole72_64 Start: 46099, Stop: 46344, Start Num: 6

Candidate Starts for Nicole72_64:

(Start: 6 @46099 has 4 MA's), (11, 46132), (18, 46213), (19, 46228), (25, 46330),